TM 8-622

WAR DEPARTMENT TECHNICAL MANUAL

FIELD STERILIZING EQUIPMENT ITEMS 4011028, 7910005, 9950000, 9952300, 9953000, 9953528, 9954028

WAR DEPARTMENT • NOVEMBER, 1944

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G. C. MARSHALL,
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For explanation of symbols see FM 21–6.

FOREWORD

1. GENERAL. **a.** This manual contains information on the operation and for 1st and 2d echelon maintenance of the following field sterilizing equipment as well as descriptions of the major units:

Med. Dept. Item No.	Nomenclature
4011028	AUTOCLAVE, LABORATORY, HORIZONTAL, LEADED GASOLINE
7910005	STERILIZER, HOSPITAL, COMPLETE, STEAM
9950000	STERILIZER, DRESSING AND UTENSIL, HORIZONTAL
9952300	STERILIZER, INSTRUMENT, 20 INCH
9953000	STERILIZER, INSTRUMENT, 14 INCH
9953528	STERILIZER, INSTRUMENT, 12 INCH, WITH GASOLINE BURNER
9954028	STERILIZER, INSTRUMENT, 9¾ INCH, WITH GASOLINE BURNER

b. The manual is arranged in two parts: Part One, Operating Instructions; Part Two, Maintenance Instructions. Besides the Introduction which describes the various sterilizers and lists their manufacturers, there is an appendix which includes instructions for shipment and storage and a list of all service parts.

c. Using personnel are not required to keep special maintenance forms or records except those desired by the medical officer in charge.

2. DESCRIPTION. Sterilizers subject bacteria-laden articles and solutions to moist heat of approximately 250° Fahrenheit or boiling water until free from germs.

a. Autoclave, laboratory, horizontal, leaded gasoline, 4011028. The laboratory autoclave is a pressure type sterilizer. It consists of a horizontal cylindrical pressure chamber with a presure sealing, roll-in-place, door. It is a self-contained unit using a military burner and a boiler attached to the stand for steam generation.

b. Sterilizer, hospital, complete, steam, 7910005. Consists of four component items: One pressure type dressing sterilizer, item No. 7910107; one pressure type water sterilizer, item No. 7910240; one nonpressure type utensil sterilizer, item No. 7910305; and one nonpressure type instrument sterilizer, item No. 7910427. Each item is supplied with an individual stand.

(1) The pressure type dressing sterilizer, item No. 7910107, consists primarily of a cylindrical pressure chamber, closed by a steam-tight, locking door, and completely surrounded by a pressure steam jacket, except at the door. Means are provided for maintaining a constant steam pressure and for the continuous removal of the air and condensed moisture from the inside chamber during the sterilizing period, and for drying the articles after the period of sterilization.

(2) Pressure type water sterilizer, item No. 7910240. The pressure-type water sterilizer consists of a pair of tanks in which the water is sterilized under pressure and stored for future use. The right hand tank is ordinarily for the sterilization and storage of hot sterile water. A cooling coil is provided in the "cold", left hand, tank for quick cooling of the water after sterilization.

(3) Nonpressure utensil and instrument sterilizers, items No. 7910305 and No. 7910427. Both of these pieces consist of a boiler in which surgical instruments or utensils are boiled in water until sterile.

c. Sterilizer, dressing and utensil, horizontal, 9950000. A pressure type sterilizer consisting primarily of a horizontal cylindrical pressure chamber, closed by a steam-tight, locking door. This is a self-contained unit with a steam jacket about the pressure chamber serving as the boiler is heated by a gasoline burner. Means are provided for maintaining a constant steam pressure and for the continuous removal of air and condensed moisture from the chamber.

d. Sterilizers, instrument, 9952300, 9953000, 9953528, and 9954028. These instrument sterilizers consist of military burners and covered boilers in which instruments can be submerged in boiling water. They vary only in size and are nonpressure, portable type sterilizers.

e. Portable steam boiler for sterilizers, item No. 9910000. This item is designed for use as an auxiliary source of steam supply in those units not using gasoline burners.

3. MANUFACTURERS. a. Autoclave, laboratory, horizontal, leaded gasoline, 4011028. Bramhall Deane Co., New York, New York.
Gotham Scientific Co., New York, New York.

b. Sterilizer, hospital, complete, steam, 7910005. American Sterilizer Co., Erie, Pennsylvania.
Hospital Supply Company and The Watters Laboratories, New York, New York.
Scanlan-Morris Co., Madison, Wisconsin.
Wilmot Castle Co., Rochester, New York.

c. Sterilizer, dressing and utensil, horizontal, 9950000. American Sterilizer Co., New York, New York.
Hospital Supply Company and The Watters Laboratories, New York, New York.
Welded Tank and Construction Co., Brooklyn, New York.

CONTENTS

APPENDIXES

PART ONE

OPERATING INSTRUCTIONS

CHAPTER 1

HORIZONTAL LABORATORY AUTOCLAVE, 4011028

SECTION I. SERVICE UPON RECEIPT OF EQUIPMENT

1. UNPACKING. Particular care must be exercised when removing the crating from the autoclave in order not to damage any protruding or exposed parts. It is advisable to remove as much of the water-proofing paper as possible before disassembling the crate. This will aid in determining the clearances between the parts of the autoclave and the crating.

2. ASSEMBLING. The autoclave is shipped as a completely assembled unit. The burner, 9R10002 (fig. 1, part 18), is packed in a separate corrugated carton. Remove the burner from its container and place on burner base, 4R00016 (fig. 1, part 19). The steam pressure gauge, SR00609 (fig. 1, part 12), and the safety valve, SR00505 (fig. 1, part 14), may also be wrapped or packed separately and placed within the chamber of the autoclave. Place both parts in their respective positions on the unit.

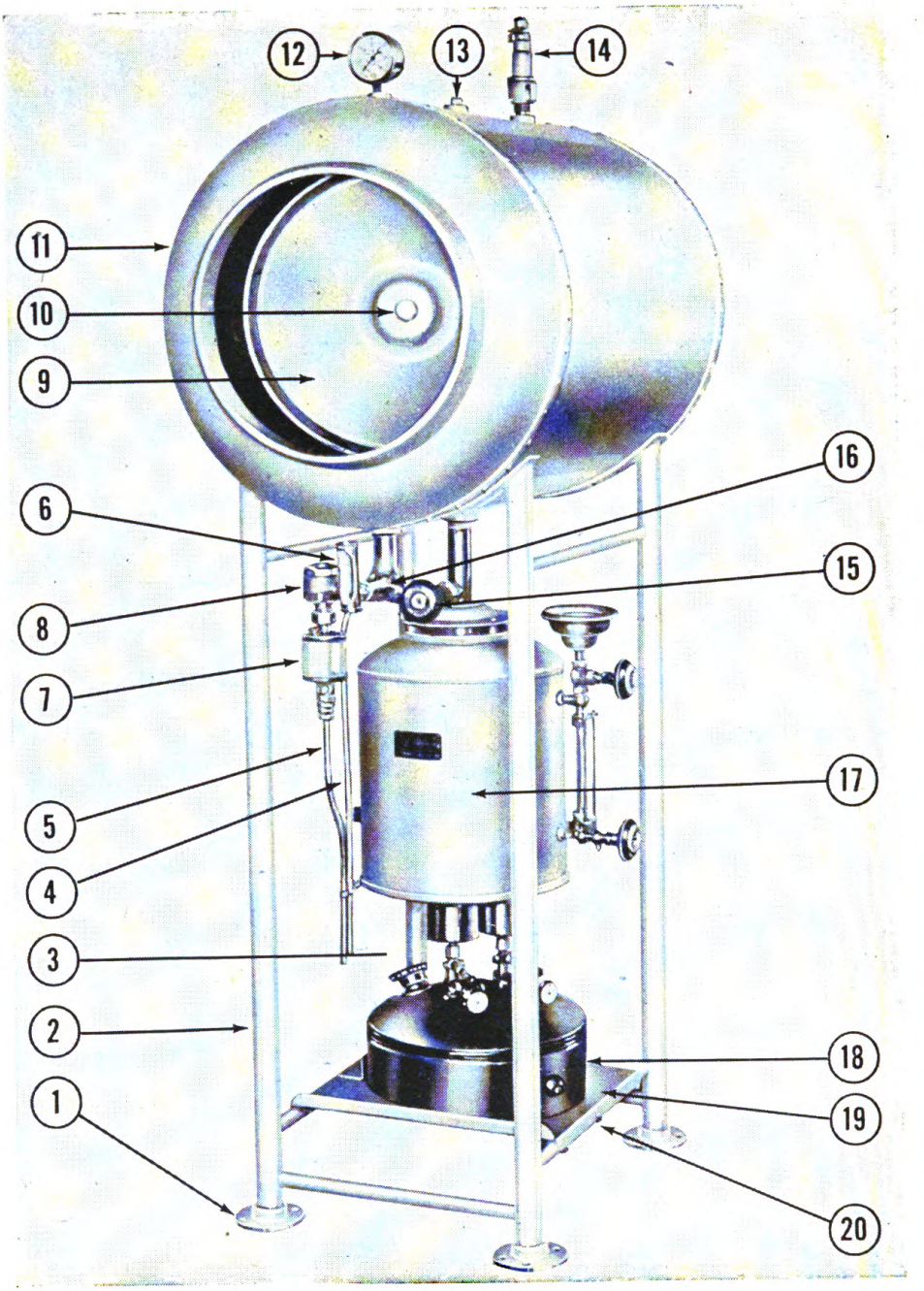
3. INSTALLING. **a.** After unit has been uncrated and assembled, it is ready for operation. Place the autoclave in position for use. Adjust leveling floor flanges, 4R00066 (fig. 1, part 1), so the chamber of the autoclave is tilted slightly forward. This will allow proper drainage of moisture during operation.

b. Location of this sterilizer with open flame burner must be such as to avoid fire or explosion hazards.

SECTION II. CONTROLS AND INSTRUMENTS

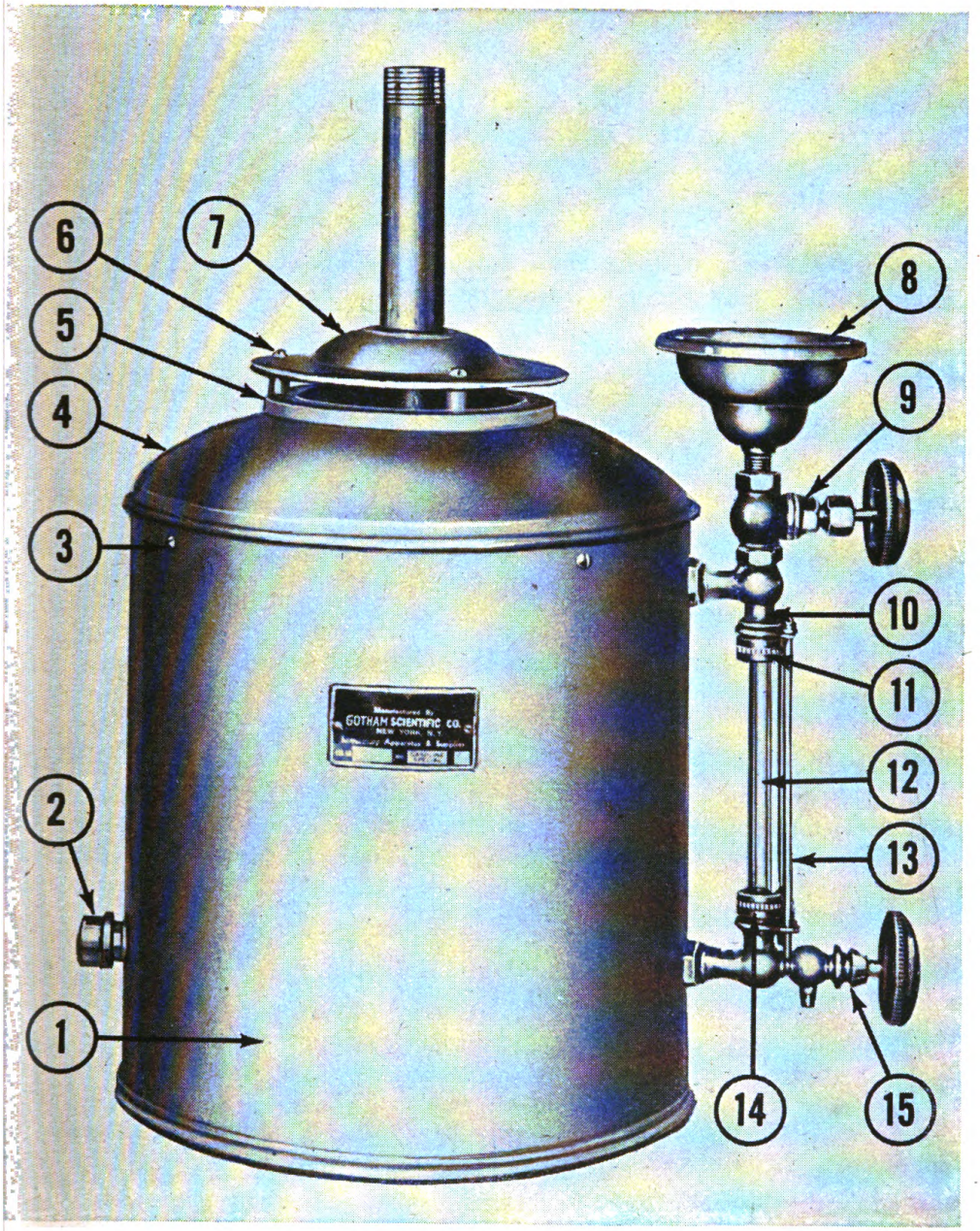
4. CONTROLS. **a.** The water supply globe valve, 4R00106 (fig. 2, part 9) is located on the boiler shell, above the glass gauge. Open the valve and pour water through the water supply cup, 4R00058 (fig. 2, part 8), to fill steam boiler.

b. The bottom needle valve, 4R00014 (fig. 2, part 15), at the bottom of glass gauge is used to drain the boiler coil and glass gauge.



Med. Dept. No.	Nomenclature
1. 4R00066	Flange, Leveling Floor.
2. 4R00080	Stand.
3. 4R00036	Bracket, Long, Tubing.
4. 4R00094	Tubing, Waste, Pressure Relief Valve.
5. 4R00092	Tubing, Waste, Evacuation Chamber
6. 4R00082	Thermometer.
7. 4R00038	Chamber, Evacuation, Complete.
8. 4R00084	Trap, Steam, Complete.
9. 4R00060	Door.
10. 4R00062	Knob, Door.
11. 4R00078	Shell, Sterilizer.
12. SR00609	Gauge, Steam, 2½ Inch, 30 Lbs. Pressure, with $1\frac{7}{32}$–18 x ⅜-Inch Stud Complete.
13. SR00605	PLUG, Pipe, Solid, Square Head, ½ Inch.
14. SR00505	Valve, Safety, ½ Inch, 25 Lbs., Complete.
15. 4R00096	Valve, Angle, Pressure Relief, Complete.
16. 4R00054	Connection "T".
17. 4R00020	Shell, Boiler.
18. 9R10002	Burner, Two 10,000 B.T.U. Head, Gasoline.
19. 4R00016	Base, Burner.
20. SR00607	Screw, 10–24 x ⅝-Inch, R.H.M.

Figure 1. Horizontal Laboratory Autoclave, item No. 4011028, manufactured by Gotham Scientific Co.



Med. Dept. No.	Nomenclature	Med. Dept. No.	Nomenclature
1. 4R00020	Shell, Boiler.	9. 4R00106	Valve, Globe, ¼-Inch, Water Supply, Complete.
2. SR00610	Cap, Pipe, ½ Inch.		
3. SR00608	Screw, 10 x ⅜-Inch, Shell Metal, R.H.	10. 4R00068	Holder, Upper, Glass Gauge.
4. 4R00022	Cover, Boiler Shell.	11. 4R00072	Nut, Coupling, Glass Gauge.
5. 4R00030	Spacer, Boiler Deflector.	12. 4R00004	Gauge, Glass.
6. SR00603	Screw, 5–40 x 1⅜-Inch, R.H.M.	13. 4R00076	Rod, Glass Gauge.
7. 4R00028	Deflector, Boiler.	14. 4R00072	Nut, Coupling, Glass Gauge.
8. 4R00058	Cup, Water Supply.	15. 4R00014	Valve, Needle, Bottom.

Figure 2. Steam boiler, complete. With accessories for horizontal laboratory autoclave, manufactured by Gotham Scientific Co.

c. The pressure relief angle valve, 4R00096 (fig. 1, part 15), is locate directly below the sterilizer shell, and is used to maintain the proper steril izer pressure.

d. The burner 9R10002 (fig. 1, part 18), is located below the boiler shell Do not attempt to ignite it until thoroughly familiar with the operation o the gasoline burner. Carefully read instructions in TM 8–615, Gasolin Stoves and Burners.

5. INSTRUMENTS. **a.** The thermometer, 4R00082 (fig. 1, part 6), i located directly below the sterilizer shell.

b. The steam pressure gauge, SR00609 (fig. 1, part 12), is located on to of the sterilizer shell and indicates the steam pressure inside the sterilize shell.

SECTION III. OPERATION

6. GENERAL OPERATION. **a.** Open the water supply globe valve 4R00106 (fig. 2, part 9), and pour water through the water supply cup, 4R00058 (fig. 2, part 8).

b. Fill steam boiler with water to ½ inch below top of glass gauge.

c. Close water supply globe valve.

d. Carefully read instructions for gasoline burner operation in TM 8–615, Gasoline Stoves and Burners. Do not attempt to ignite until thoroughly familiar with the operation of the two 10,000 B.T.U. Head Gasoline Burner, 9R10002 (fig. 1, part 18). Place burner in position on burner base, 4R00016 (fig. 1, part 19), and ignite.

e. If no waste or drainage line is available, place a container below the pressure relief valve waste tubing, 4R00094 (fig. 1, part 4), and the evacua- tion chamber tubing, 4R00092 (fig. 1, part 5).

f. Place material to be sterilized in the autoclave. Roll door into closed position. As soon as the pressure is raised, the door will seal.

g. The pressure relief angle valve, 4R00096 (fig. 1, part 15), should be closed until the pressure begins to rise. Then open the valve slightly. If pressure fails to rise after valve has been opened, it is an indication that it has been opened too much and must be regulated accordingly.

h. Watch thermometer, 4R00082 (fig. 1, part 6), and time sterilizing period when it reaches the normal temperature range of approximately 250° Fahrenheit. The length of the sterilizing period will be in accordance with standard practices and the instructions of the medical officer in charge.

i. After sterilizing period, turn off burner. Open the pressure relief angle valve to exhaust chamber completely. Exhaust the chamber very slowly over a 5 minute period if solutions were sterilized. Door can then be rolled open from left to right.

CHAPTER 2

HOSPITAL STERILIZER, 7910005

SECTION I. SERVICE UPON RECEIPT OF EQUIPMENT

7. UNPACKING. The hospital sterilizer is packed in four crates, each crate containing one of the component items on its own stand, complete but without steam risers. When uncrating, particular care must be exercised to prevent breaking the various gauges and thermometers on the dressing sterilizer and water sterilizers. The foot flanges are also liable to breakage, and undue strain should not be put on them by tipping the unit while uncrating.

8. ASSEMBLING. Each unit is completely assembled and is ready to operate after proper plumbing connections have been made.

9. INSTALLATION PLUMBING REQUIREMENTS. a. Boiler pressure requirements. (1) The hospital sterilizer requires an operating pressure of 40 to 60 pounds at the sterilizers. Satisfactory performance will not result from pressure below 35 pounds. On the other hand, steam pressure at the sterilizers should not exceed 65 pounds. If it does, a pressure reducing valve should be installed in the steam supply line to maintain the pressure at the sterilizers within the 40 to 60 pound limit. Care must be taken to avoid excessive fluctuations in boiler pressure, and supply lines should be of sufficient capacity to serve the demands of the equipment. Minor fluctuations are controlled by the pressure regulating valves included with the sterilizer.

(2) Because of varying conditions, no table of steam consumption would be an accurate guide in figuring boiler sizes for numbers of steam heated sterilizers. However, the steam boiler, medical department item No. 9910000 will provide sufficient steam pressure to operate the hospital sterilizer in the field.

b. Steam supply system. Steam supply lines should be well insulated and of sufficient size to prevent condensate from being carried to the sterilizers. This is particularly important with the dressing sterilizers, as the condensate will wet dressings and cause unsatisfactory performance. A large steam supply line decreases the velocity at which the steam travels, and permits the condensate to return by gravity to some low point where it should be trapped and drained into the steam return system.

c. Steam return system. It is highly important that back pressure in the steam return line be avoided, or trouble will surely result. To prevent this

the installation of an open gravity steam return system will permit free normal operation of each trap and cut out interference between sterilizers. Steam return lines should be of ample capacity; long horizontal runs, bends, and pockets where condensate may accumulate should be avoided as much as possible. Each unit of the hospital sterilizer is equipped with individual thermostatic steam return traps which keep the condensate flowing from the sterilizer to the steam return system. They are also equipped with check valves, but these valves may not protect the trap in case of back pressure on the steam return line. Individually trapped sterilizers should never be connected to a steam return system having any back pressure, to a system having a trap between the traps on the sterilizers, nor to the return line of equipment not individually trapped. Where a gravity type steam return is not available, autoclaves should be piped to discharge the condensate into waste line through an open air break waste fitting.

10. INSTALLING. a. Connecting to waste line. It is extremely important that the air gap on the waste line be sufficiently large to prevent any vacuum exerted by the pressure sterilizing equipment from causing waste water to jump the gap and be sucked back into the equipment. A safe rule is to make the air gap three times the diameter of the waste pipe lines, or at least 1½ inches on pressure sterilizing equipment, and at least ¼ inch on nonpressure equipment. This measurement should be made from the top of the funnel on the waste line.

b. Connecting to water lines. If a hot water supply line is available, connect the water supply lines of the water, utensil, and instrument sterilizers to it. The water sterilizer cooling coil line must be connected to a cold water supply. If the utensil and instrument sterilizers are equipped with a water type vapor condenser, it too must be connected to a cold water supply.

c. Connecting to steam supply and return lines. The terminal ends of the hospital lines should be the same size as those of the sterilizer. For most efficient performance the hospital lines back of the terminal ends should be larger in size.

d. Connecting vent. If the utensil and instrument sterilizers are provided with an atmospheric vent, the risers should be vertical. If this is impossible, they should be run at 45° angle toward the roof rather than horizontally.

e. Leveling. When the sterilizing equipment has been set up and connected, it must be leveled. This is accomplished by turning the floor flanges so as to raise or lower the four legs. The water, utensil, and instrument sterilizers should be level. The dressing sterilizer should be tilted slightly forward so that when a glass of water is thrown into the back of the chamber, it will run out of the strainer at the front part of the chamber.

f. Pipe dimensions. Steam and water pipes and pipe fittings such as unions, reducers, elbows and plugs, are not discussed as service parts in this manual. The length, size and type of pipe and fitting will greatly vary even on identical models. Pipe and pipe fittings will not require replacement, due to wear, during the useful life of the sterilizers. Because the plumbing is below the sterilizer body and within the sterilizer stand, it is not vulnerable to damage during shipment or use. Should it become necessary to replace a pipe, however, the following information will be useful.

(1) *Thread size.* Pipe on all sterilizers is standard thread size.

(2) *Pipe size.* Pipe size is measured by the inside diameter of the pipe. Because of corrosion and deposits within the pipe it may be difficult to determine the correct size. However, only three sizes of pipe are used on all sterilizers covered by this manual: ⅜ inch, ½ inch and ¾ inch; ¾ inch is used only on waste lines. Pipe size may also be determined by checking the size of the fittings or valves connected to the section of pipe to be replaced.

(3) *Length.* Measurements include the threaded end or ends as well as the complete length of the pipe itself.

SECTION II. CONTROLS AND INSTRUMENTS

11. CONTROLS. a. Dressing sterilizers. (1) *Steam supply valve.* This valve is used for turning the steam supply either "ON" or "OFF."

(2) *Steam control valve.* This valve is installed on steam supply line and is the last valve through which steam passes before entering the sterilizer, This valve may be set to maintain any predetermined pressure in the sterilizer.

(3) *Steam to chamber valve.* Allows steam to enter chamber from jacket.

(4) *Exhaust valve.* Allows steam to be exhausted from chamber.

(5) *Air valve.* Located in front door of some dressing sterilizers, is used as an additional safeguard to guarantee that chamber of sterilizer has been completely freed of air. It is kept slightly open during time of sterilization.

(6) *Four-way control valve.* Used on some models of dressing sterilizers to control steam in chamber.

(7) *Vacuum valve.* Used on some dressing sterilizers to draw a partial vacuum in the chamber.

b. Water sterilizers. (1) *Cooling water valve.* Allows cold water to flow through the cooling coil inside the "cold" tank.

(2) *Water supply valve.* Used to admit or shut off water supply to tanks.

(3) *Drain valves.* Each tank is fitted with a drain valve for emptying the tank.

(4) *Steam supply valve.* Admits or shuts off steam to heating coils.

(5) *Draw off valve.* Carries sterile water from tanks.

(6) *Steam control valve.* Valve is installed on steam supply line and maintains a constant set pressure during sterilization period.

c. Utensil and instrument sterilizers. (1) *Steam supply valve.* Admits or shuts off steam to coil.

(2) *Waste valve.* Used for draining sterilizer.

(3) *Water filling valve.* Admits water to sterilizer.

12. INSTRUMENTS. a. Dressing sterilizer. (1) *Chamber gauge.* Indicates pressure or vacuum in chamber.

(2) *Jacket gauge.* Indicates pressure in jacket.

(3) *Thermometer.* Indicates temperature in coolest part of sterilizer and is installed in the chamber return line.

b. Water sterilizer. (1) *Thermometer* (mercury or dial type). Indicates temperature of water.

(2) *Water level indicator* (either gauge glass or dial type). Each tank is equipped with a water level indicator. Gauge glasses are equipped with shut off valves at top and bottom in case of breakage, and with a petcock at bottom to drain gauge glass.

SECTION III. OPERATION

13. DRESSING STERILIZERS. To operate the pressure type dressing sterilizer, proceed as follows: **a. Scanlan-Morris, Castle and American without 4-way operating valve.** (1) Start with all valves closed and a steam pressure of 40 to 60 pounds at the sterilizer.

(2) Open steam supply valve fully.

(3) Turn steam control valve to pressure at which sterilizer is to be operated. Temperature and pressure will then be held automatically.

(4) Load sterilizer.

(5) Close door tightly but not forcibly.

(6) When jacket pressure gauge reaches the pressure at which the regulator is set, open steam to chamber valve gradually.

(7) When thermometer reaches the minimum sterilizing temperature, begin timing the sterilizing period.

(8) After sterilizing period, close steam to chamber valve.

(9) For dressings and dry goods, open exhaust valve *after* steam to chamber valve is closed.

(10) When chamber gauge has returned to zero, open door ½ inch, or just enough to permit vapor to escape, for 5 to 10 minutes, leaving steam in jacket. If directions have been followed, sterile goods will be dry enough for immediate use or storage.

(11) For solutions and liquids, after closing steam to chamber valve at end of sterilizing period, allow vent valve to remain closed and sterilizer to cool until chamber gauge returns to zero.

(12) Close steam supply valve when through sterilizing.

b. Hospital Supply and American with 4-way operating valve. (1) Start with all valves closed and 4-way operating valve at "Off" (American) or "Closed" (Hospital Supply).

(2) Open steam supply valve.

(3) Turn steam control valve to pressure at which sterilizer is to be operated.

(4) Load sterilizer.

(5) Close door tightly but not forcibly.

(6) When jacket pressure gauge shows 15 to 17 pounds, turn 4-way operating valve to "Ster" (American) or "Sterile" (Hospital Supply).

(7) When thermometer reaches the minimum sterilizing temperature, start timing the sterilizing period.

(8) After sterilizing period, turn 4-way operating valve to "Off" (American) or "Closed" (Hospital Supply).

(9) Open door slightly for all materials except solutions. For solutions, keep door closed. Wait until chamber gauge shows zero.

(10) Close steam supply valve when through sterilizing.

14. WATER STERILIZER. To operate the pressure type water sterilizer, proceed as follows:

a. Start with all operating valves closed.

b. To fill sterilizer, open filter valve, then water supply valve of tank to be filled. Both tanks may be filled at the same time by opening the valves on both tanks. Open valves fully.

c. When tank is full, close water supply valve.

d. Open steam supply valves fully.

e. When thermometer reaches 250° Fahrenheit, the sterilizing period begins. The control valve will maintain this temperature automatically.

f. After sterilizing period, close steam supply valve.

g. While tanks are under pressure, open draw-off valves and draw off sufficient water to drain piping and thoroughly sterilize valves.

h. If the water sterilizer being used is not equipped to sterilize the gauge glasses automatically, proceed as follows:

(1) Open petcock at bottom of gauge glass.

(2) Permit water to drain out of glass. Live steam from the sterilizer will then flush the gauge glass.

(3) Close petcock at bottom of gauge glass.

i. To cool "cold" tank, open cooling water valve; when cooled to desired temperature, close cooling valve tightly.

15. UTENSIL AND INSTRUMENT STERILIZERS. To operate the nonpressure utensil and the nonpressure instrument sterilizers, proceed as follows:

a. Start with all valves closed.

b. To fill sterilizer, open water valve fully. When contents are covered, close water valve.

c. Open steam supply valve fully. When steam return valve is furnished, open about one turn.

d. When water boils, turn steam supply valve down to maintain boiling temperature during entire sterilization period.

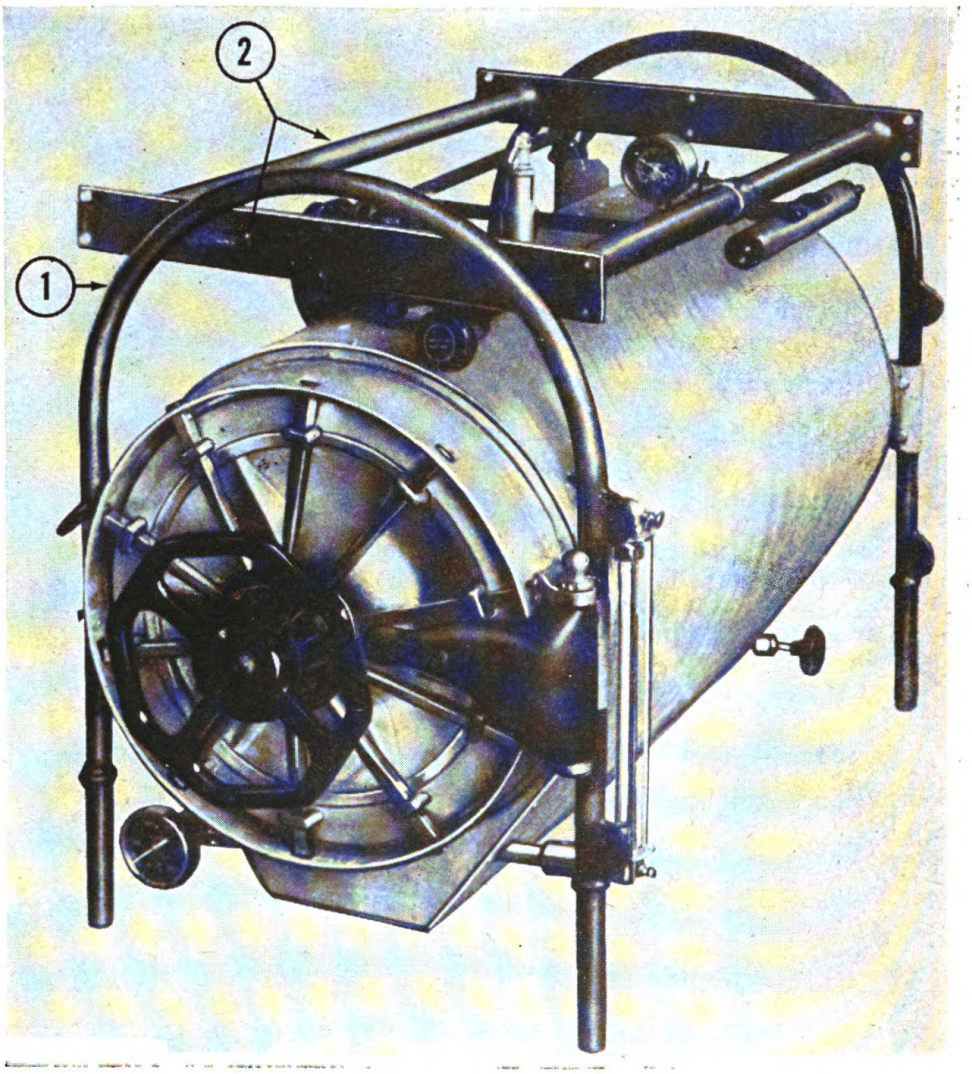
e. After sterilization, close steam supply valve. Also close steam return valve, if furnished.

CHAPTER 3

HORIZONTAL DRESSING AND UTENSIL STERILIZER 9950000

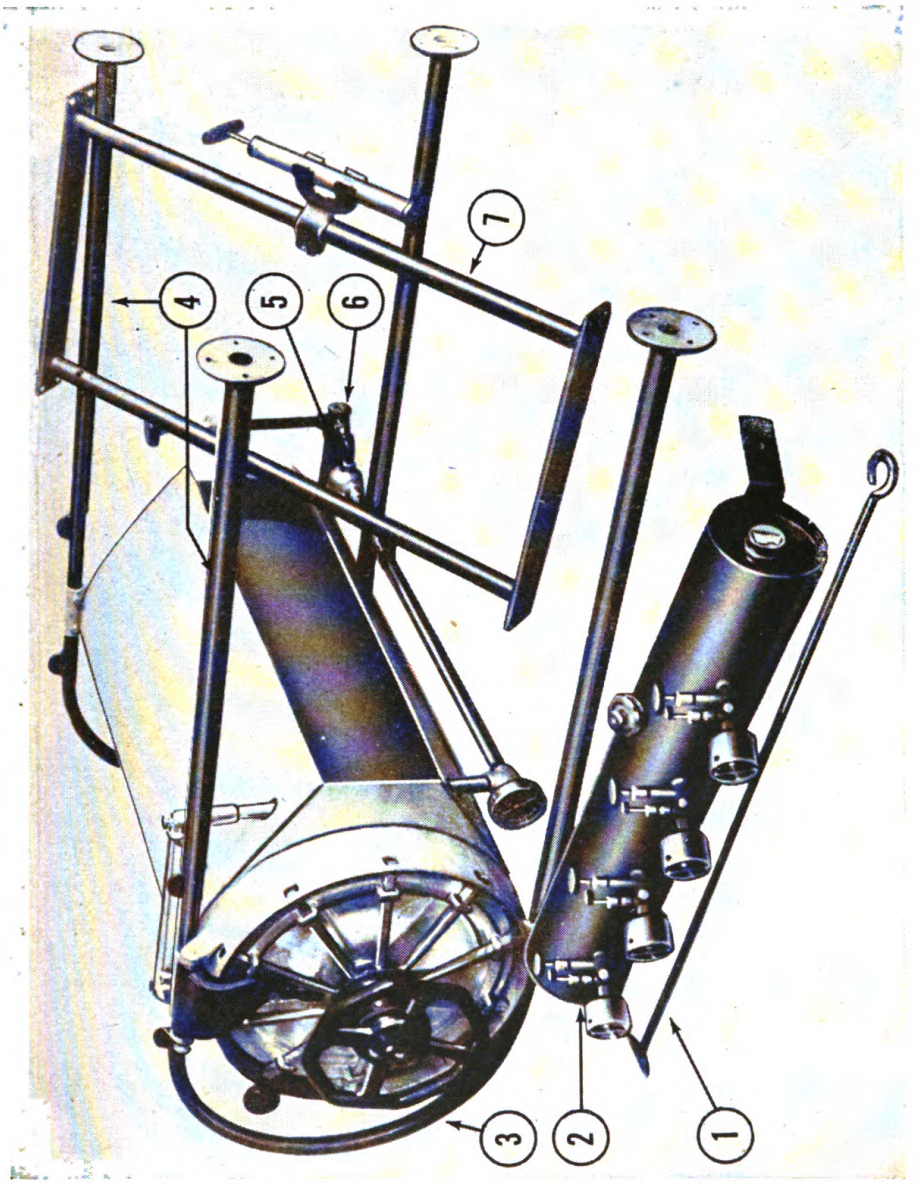
SECTION I. SERVICE UPON RECEIPT OF EQUIPMENT

16. UNPACKING. Care must be exercised when removing the crate from around the sterilizer. It is advisable to remove as much of the waterproof paper as possible before disassembling the crate. This will aid in determining the clearances between the parts of the sterilizer and the crate. Particular care must be taken not to damage the glass gauge and the thermometer.



Med. Dept. No.	Nomenclature	Med. Dept. No.	Nomenclature
1. 9R00416	Stand, Overhead Section.	2. 9R00412	Stand, Horizontal Brace Section.

Figure 3. Dressing and utensil sterilizer, item No. 9950000, manufactured by American Sterilizer Co., assembled for shipment.



	Med. Dept. No.	Nomenclature
1.	9R00406	Scraper.
2.	9R10004	Burner, Four 10,000 B.T.U. Heads, Gasoline.
3.	9R00416	Stand, Overhead Section.
4.	9R00414	Stand, Lower Leg Section.
5.	SR00499	Trap, Steam, ⅜ Inch, 60 Lbs.; Webster No. 780–2, Complete.
6.	SR00616	Plug, Pipe, Solid, Square Head, ⅜ Inch For Drain.
7.	9R00412	Stand, Horizontal Brace Section.

Figure 4. Dressing and utensil sterilizer, item No. 9950000, manufactured by American Sterilizer Co., in position for assembling.

17. ASSEMBLING. **a.** The sterilizer is shipped with the stand disassembled as shown in figure 3.

The horizontal brace section, 9R00412 (fig. 3, part 2), of the stand is placed on top of sterilizer chamber. The stand legs, burner, and accessories are shipped packed within the chamber.

b. Place sterilizer on side as shown in figure 4.

Be certain that the sterilizer is placed on a clear level area to avoid damage to finishing jacket or other exposed parts of the unit.

c. Fit stand legs, 9R00414 (fig. 4, part 4), on the lower ends of overhead section, 9R00416 (fig. 4, part 3), of the stand.

d. Bolt horizontal brace section, 9R00412 (fig. 4, part 7 and fig. 5, part 3), to legs.

e. Bolt gasoline burner, 9R10004 (fig. 4, part 2 and fig. 5, part 5), to the horizontal brace section of the stand.

f. Raise sterilizer to the upright operating position as shown in figure 5. Handle the sterilizer with care during the movement to the upright position because unnecessary strain or jolting may damage the leveling floor flanges, 9R00376 (fig. 5, part 1).

18. INSTALLATION. **a.** After unit is uncrated and assembled, it is ready for operation. Place sterilizer in position for use.

b. Adjust leveling floor flanges so the chamber of the sterilizer is inclined slightly forward. This will insure proper drainage of moisture from the chamber through the air and condensate line during operation.

SECTION II. CONTROLS AND INSTRUMENTS

19. CONTROLS. **a. Water fill valve.** Allows water to flow through funnel into sterilizer.

b. Steam to chamber valve. Allows steam to flow from jacket to chamber.

c. Exhaust valve. Allows steam to be evacuated from the chamber.

d. Waste valve. Allows water to drain from boiler jacket.

e. Burner controls. (See TM 8–615, Gasoline Stoves and Burners.)

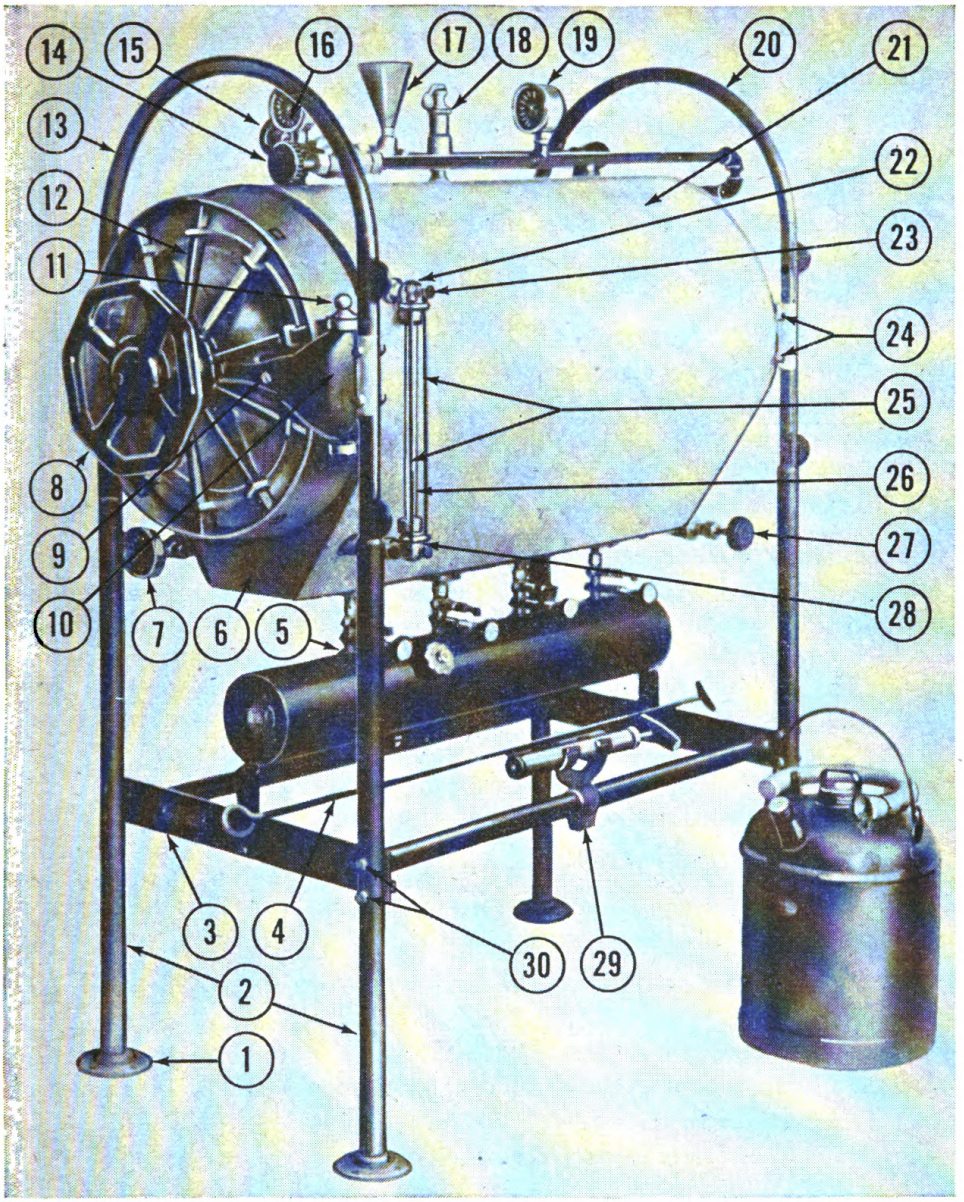
20. INSTRUMENTS. **a. Jacket gauge.** Indicates pressure or vacuum in jacket.

b. Chamber gauge. Indicates pressure or vacuum in chamber.

c. Thermometer. Indicates temperature in coolest part of sterilizer.

d. Water level indicator. Indicates level of water in boiler jacket.

e. Burner instruments. (See TM 8–615, Gasoline Stoves and Burners.)



Med. Dept. No.	Nomenclature
1. 9R00376	Flange, Leveling Floor.
2. 9R00414	Stand, Lower Leg Section.
3. 9R00412	Stand, Horizontal Brace Section.
4. 9R00406	Scraper.
5. 9R10004	Burner, Four 10,000 B.T.U. Heads, Gasoline.
6. 9R00400	Plate, End.
7. 9R00306	Thermometer.
8. 9R00366	Wheel, Hand, Door.
9. SR00623	Screw, ½–20 x 1⅜ Inch, Fill. H., Cap. For door hinge.
10. 9R00344	Hinge, door.
11. 9R00348	Pin and Knob, Door Hinge.
12. 9R00334	Arm, Door.
13. 9R00416	Stand, Overhead Section.
14. 9R00304	Valve, Right Angle. For steam supply.
15. 9R00308	Valve, Water Fill.
16. 9R00312	Gauge, Jacket.
17. 9R00382	Funnel, Water Filling.
18. 9R00302	Valve, Safety.
19. 9R00314	Gauge, Chamber.
20. 9R00416	Stand, Overhead Section.
21. 9R00396	Jacket, Finishing.
22. 9R00394	Holder, Upper, Glass Gauge.
23. 9R00402	Plug, Glass Gauge Holder.
24. SR00613	Bolt, ⅜–16 x 1¾ Inch, Hex H.M. For overhead section stand.
25. 9R00404	Rod, Glass Gauge.
26. 9R00310	Gauge, Glass, Water Level, Complete. With washer.
27. 9R00304	Valve, Right Angle: For steam waste and exhaust.
28. 9R00392	Holder, Lower, Glass Gauge.
29. 9R00372	Clip, Pump.
30. SR00614	Bolt, ⅜–16 x 2 Inch, Hex H.M. For horizontal brace section stand.

Figure 5. Dressing and utensil sterilizer, item No. 9950000, manufactured by American Sterilizer Co., assembled.

SECTION III. OPERATION

21. GENERAL OPERATION. a. Fill sterilizer with water. (1) Check pressure gauges and exhaust any pressure in unit by opening vent or exhaust valve on left side of sterilizer jacket.

(2) Close steam supply or steam to chamber valve, 9R00304 (fig. 5, part 14). Close waste or drain valve, 9R00304 (fig. 5, part 27). Close vent or exhaust valve on the left side of the sterilizer jacket.

(3) Open safety valve, 9R00302 (fig. 5, part 18), by lifting up on lever.

(4) Open water supply or water filling valve, 9R00308 (fig. 5, part 15).

(5) Fill by pouring clean water through funnel, 9R00382 (fig. 5, part 17), until water level is 3 inches from top of the glass gauge, 9R00310 (fig. 5, part 26). The safety valve must be held open while filling to secure an accurate level indication on the glass gauge.

(6) Release safety valve lever and close the water fill valve.

b. Gasoline burner operation. Carefully read instructions for burner operation in TM 8–615, Gasoline Stoves and Burners. Do not attempt to ignite until thoroughly familiar with the operation of the gasoline burners, 9R10004 (fig. 5, part 5).

c. Sterilizing operation. (1) Start with all valves in closed or off position.

(2) Ignite burners.

(3) Allow pressure in jacket to build up to 17 to 20 pounds. This will require 20 to 30 minutes. Safety valve will release any pressure in excess of 20 pounds. Regulate gasoline burner until a steady 20 pound pressure, as indicated on the jacket gauge, 9R00312 (fig. 5, part 16), is maintained.

(4) Place articles to be sterilized in the chamber. The amount and arrangement of articles within the chamber will be as directed by the medical officer in charge.

(5) Close the sterilizer door and lock. Do not use excessive pressure in locking the door as it will cause rapid deterioration of the door gasket.

(6) Open steam to chamber or steam supply valve. This will cause the jacket gauge to indicate a drop in steam pressure and the chamber gauge, 9R00314 (fig. 5, part 19), to indicate an increase. Both gauges will indicate less than the required 17 to 20 pounds pressure. Allow sufficient time for jacket and chamber gauges to increase to required pressure.

(7) Watch the thermometer, 9R00306 (fig. 5, part 7), until the temperature indicated is approximately 250° Fahrenheit. Begin the sterilizing period at that time. The length of the sterilizing period will be in accordance with standard practices and the instructions of the medical officer in charge.

CHAPTER 4

INSTRUMENT STERILIZERS
9952300, 9953000, 9953528, and 9954028

SECTION I. SERVICE UPON RECEIPT OF EQUIPMENT

22. UNPACKING AND ASSEMBLING. The instrument sterilizer and burner are packed in a single container. The item is shipped assembled. There are no specific instructions necessary for either unpacking or assembling.

23. INSTALLATION. The instrument sterilizer is shipped assembled and ready for use. It is a small, portable item and there is no installation required. Place burner in position under boiler and the tray within the boiler.

SECTION II. CONTROLS AND INSTRUMENTS

24. BURNER CONTROLS AND INSTRUMENTS. See TM 8–615, Gasoline Stoves and Burners.

SECTION III. OPERATION

25. GENERAL OPERATION. **a.** Fill the boiler with clean water. The boiler must be filled at least half full and may be filled as near to the top as required to cover the instruments to be sterilized.

b. Carefully read instructions for burner operation in TM 8–615, Gasoline Stoves and Burners. Do not attempt to ignite burner until thoroughly familiar with the operation of the burner.

c. Begin the sterilizing period when the water boils. The length of the sterilizing period will be in accordance with standard practices and the instructions of the medical officer in charge. Do not add water during the sterilizing period.

PART TWO

MAINTENANCE INSTRUCTIONS

CHAPTER 5

HORIZONTAL LABORATORY AUTOCLAVE, 4011028

SECTION I. PREVENTIVE MAINTENANCE SERVICE

26. DAILY MAINTENANCE. **a.** Clean and wash inside of autoclave.

b. Clean strainer inside of autoclave.

c. Clean the ground edges of the door and the corresponding inner edge of the chamber.

d. Flush the boiler.

e. Test safety valve.

27. MONTHLY MAINTENANCE. **a.** Check water supply valve, bottom needle valve, and pressure relief angle valve and couplings for leaks and seepage.

b. Clean glass gauge.

SECTION II. TROUBLE SHOOTING

28. ESCAPE OF STEAM FROM WATER SUPPLY CUP.

Possible causes	*Possible remedies*
Faulty water supply globe valve.	Repair valve (par. 41).

29. LOSS OF STEAM FROM CHAMBER DURING OPERATION.

Possible causes	*Possible remedies*
Faulty steam trap.	Repair or replace steam trap (par. 39).
Leak around door.	Replace gasket (par. 51 *d*).
Faulty pressure relief angle valve.	Repair or replace (par. 43).
Damaged steam pressure gauge.	Replace gauge.
Faulty safety valve.	Replace safety valve.
Damaged chamber.	Refer to higher echelon.

30. WET DRESSINGS.

Possible causes	*Possible remedies*
Plugged screen strainer in chamber drain.	Clean strainer (par. 33).
Faulty steam trap.	Repair or replace (par. 39).
Excessive condensation in line.	Report to proper authority.
Incorrect operating procedure.	Read instructions for operation (par. 6).
Sterilizer not tilted forward properly.	Adjust leveling floor flanges.

31. SAFETY VALVE BLOWING CONTINUOUSLY.

Possible causes	*Possible remedies*
Faulty safety valve.	Replace safety valve.
Steam pressure too high.	Turn down burner flame.

32. SOLUTIONS BOILING OVER.

Possible causes	*Possible remedies*
Lowering pressure in chamber too fast.	Allow autoclave to cool without venting the chamber.
Opening door before chamber gauge drops to zero.	Wait until chamber gauge drops to zero.

SECTION III. MAINTENANCE OPERATIONS

33. TO CLEAN INSIDE OF AUTOCLAVE. a. Remove the strainer, 4R00012 (fig. 6, part 2).

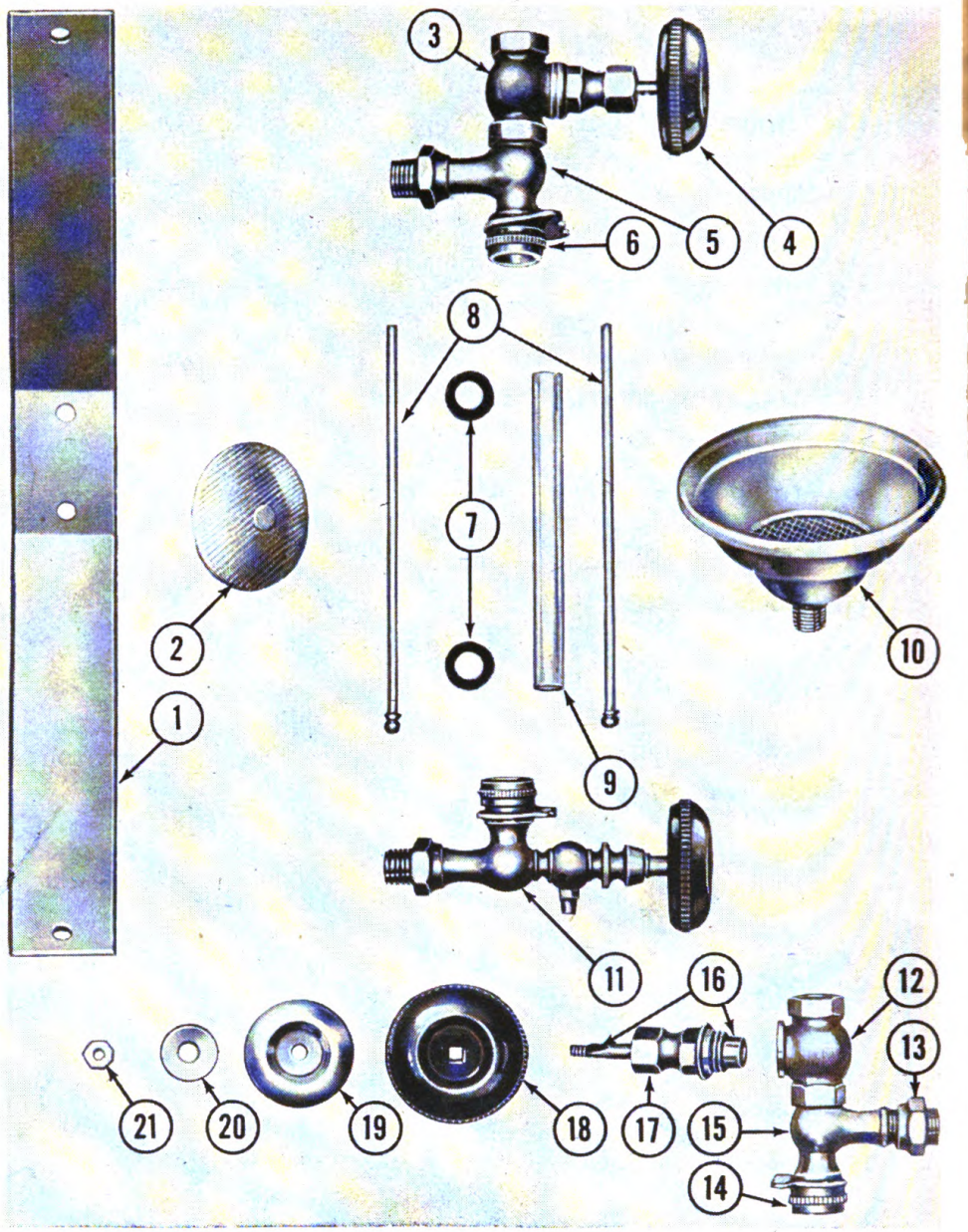
The strainer is held in place by a friction clip and can be lifted out with finger pressure. Flush inside of autoclave with clear water. Wipe with damp cloth followed by a dry cloth. If water is found to stand in rear of chamber, adjust level of autoclave by means of the leveling floor flanges, 4R00066 (fig. 1, part 1).

b. Carefully wipe the ground edges of the door and the corresponding inner edge of the chamber with a soft cloth. Never scrape either of the surfaces with a sharp metal tool. Any marring of the surfaces will break the door seal under pressure.

34. TO FLUSH THE BOILER. Open the water supply globe valve, 4R00106 (fig. 2, part 9), and the bottom needle valve, 4R00014 (fig. 2, part 15). Place a container under the bottom needle valve and pour water through the water supply cup, 4R00058 (fig. 2, part 8).

35. TESTING AND REPLACING VALVE. a. Test safety valve, SR00505 (fig. 1, part 14 and fig. 7, part 4), by lifting the lever when there is pressure in the unit.

A very slight lift should be sufficient to cause release of pressure through the safety valve. Should the safety valve be stuck, do not attempt to adjust or repair it. The entire safety valve must be replaced.



Med. Dept. No.	Nomenclature
1. 4R00032	Bracket, Boiler.
2. 4R00012	Strainer.
3. 4R00106	Valve, Globe; ¼ Inch, Water Supply, Complete.
4. 4R00070	Knob, Valve.
5. 4R00068	Holder, Upper, Glass Gauge.
6. 4R00072	Nut, Coupling, Glass Gauge.
7. 4R00006	Washer, Glass Gauge.
8. 4R00076	Rod, Glass Gauge.
9. 4R00004	Gauge, Glass.
10. 4R00058	Cup, Water Supply.
11. 4R00014	Valve, Needle, Bottom.
12. 4R00108	Body, Water Supply Valve.
13. 4R00122	Nut, Coupling, Glass Gauge Holder.
14. 4R00072	Nut, Coupling, Glass Gauge.
15. 4R00068	Holder, Upper, Glass Gauge.
16. 4R00002	Washer, Globe Valve.
17. 4R00110	Nut, Packing, Water Supply Valve.
18. 4R00070	Knob, Valve.
19. 4R00112	Plate, Identification, Water Supply Valve.
20. 4R00120	Washer, Knob.
21. SR00417	Nut, 10 x 24, Hex.

Figure 6. Parts for horizontal laboratory autoclave, item No. 4011028, manufactured by Gotham Scientific Co.

b. Repair of safety valve. No repair of the safety valve should be attempted by 1st or 2d echelon of maintenance. Replace the entire valve. If possible do not operate the autoclave with faulty safety valve. Should the situation be such as to necessitate the use of the autoclave, the operator should watch the steam pressure gauge during the sterilizing periods and partially exhaust the autoclave by means of the pressure relief angle valve, 4R00096 (fig. 1, part 15), to maintain a pressure of less than 30 pounds.

36. TO CLEAN GLASS GAUGE. Clean glass gauge, 4R00004 (fig. 2, part 12 and fig. 6, part 9), by removing from unit. To remove glass gauge, lift rods, 4R00076 (fig. 2, part 13, and fig. 6, part 8), from brackets. Remove glass gauge and coupling nuts, 4R00072 (fig. 2, parts 11 and 14), which will free glass gauge from holders. Clean glass gauge by drawing a dampened cloth through the gauge. Check condition of glass gauge washer, 4R00006 (fig. 6, part 7), and replace if necessary. Replace gauge glass by reversing procedure.

37. TO CLEAN AND REPLACE EVACUATION CHAMBER GLASS. Clean and replace the evacuation chamber glass, 4R00008 (fig. 8, part 3), by removing complete evacuation chamber, 4R00038 (fig. 8, part 6), from the unit.
Disassemble as shown in figure 8, thoroughly clean evacuation chamber glass and evacuation chamber port glass, 4R00050 (fig. 8, part 12), with soap and water or replace if necessary. Check condition of washers, 4R00010 (fig. 8, part 1), and 4R00052 (fig. 8, part 13), and replace if necessary. When reassembling the complete evacuation chamber, be certain all washers are in proper place. Replace complete assembly on sterilizer.

38. TO CLEAN WASTE TUBING. **a.** Clean waste tubing, 4R00094 (fig. 8, part 8), and 4R00092 (fig. 8, part 10), by removing from sterilizer and running a soft wire through it.

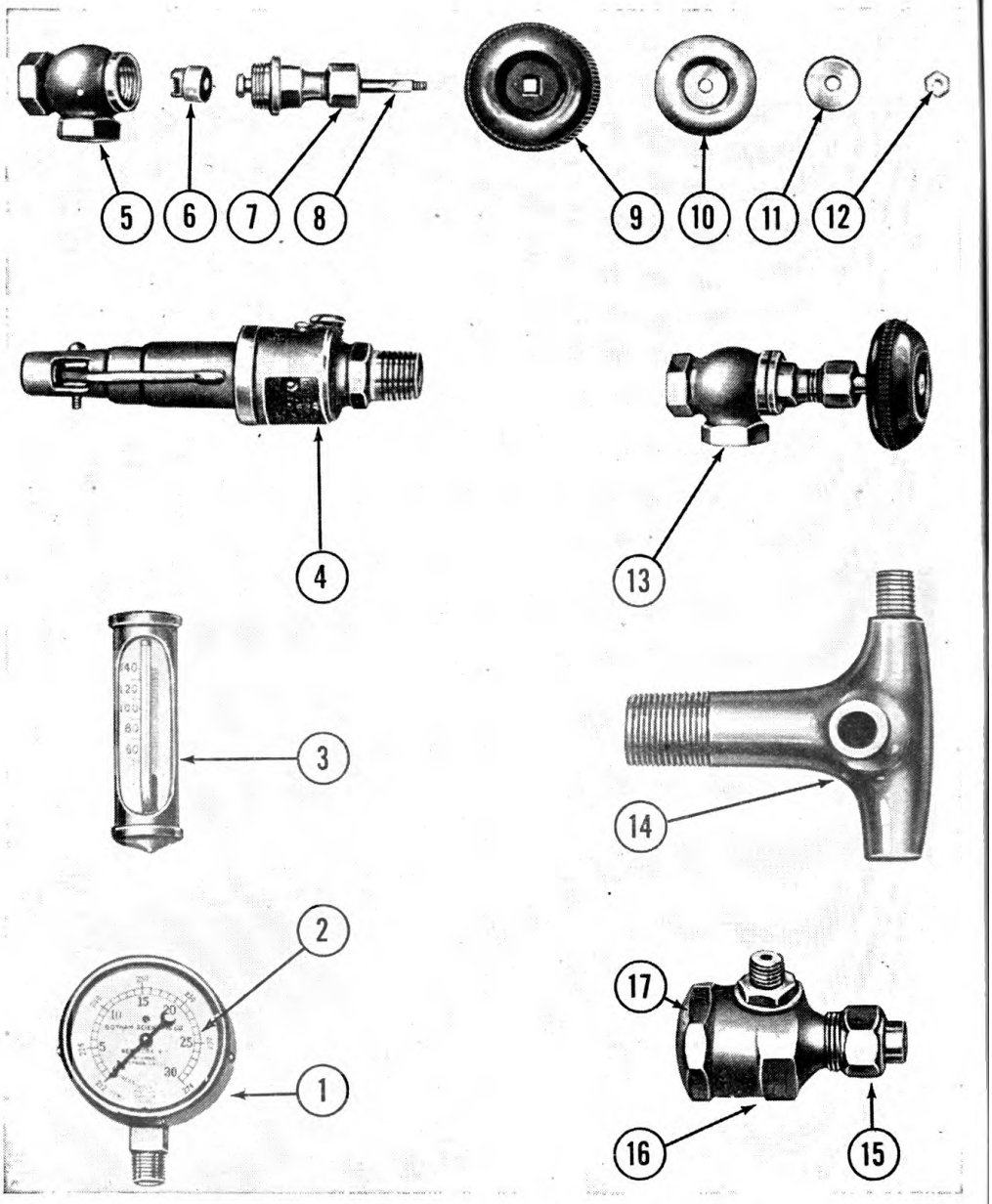
b. Burner maintenance should be in accordance with procedure in TM 8–615, Gasolnie Stoves and Burners. Spare parts list for the burner, 9R10002, are also found in TM 8–615.

39. TO REPLACE STEAM TRAP ELEMENT AND CAP. To replace the steam trap element and cap, 4R00086 (fig. 7, part 17), remove the cap from the steam trap, 4R00084 (fig. 7, part 16), by turning counterclockwise. The element is a permanent part of the cap, both are supplied as one part, 4R00086. The steam trap seat, 4R00088, is also replaceable. Indication of a faulty steam trap is the constant ejection of steam from the evacuation chamber waste tube, 4R00092 (fig. 1, part 5).

40. STEAM PRESSURE GAUGE. **a.** To replace damaged steam pressure gauge glass, SR00498 (fig. 7, part 21), remove the small metal screws in the glass frame. Slip glass frame from gauge. Install new glass and reassemble.

b. No repair of the steam pressure gauge, SR00609 (fig. 7, part 1), should be attempted by 1st or 2d echelon of maintenance. Replace the entire gauge.

41. REPAIR OF WATER SUPPLY GLOBE VALVE. Indication of faulty water supply globe valve, 4R00106 (fig. 6, part 3), is the escape of steam



Med. Dept No.	Nomenclature
1. SR00609	Gauge, Steam, 2½ Inch, 30 Lb. Pressure, With 1 7/32–18 x ⅜ Inch Stud.
2. SR00498	Glass, 2⅝ Inch Diameter; 3/16 Inch Thick, ⅛ Inch Bevel: For steam gauge.
3. 4R00082	Thermometer.
4. SR00505	Valve, Safety, ½ Inch, 25 Lbs., Complete.
5. 4R00098	Body, Pressure Relief Valve.
6. 4R00001	Washer, Angle Valve.
7. 4R00100	Nut, Packing, Pressure Relief Valve.
8. 4R00104	Stem, Pressure Relief Valve.
9. 4R00070	Knob, Valve.
10. 4R00102	Plate, Identification, Pressure Relief Valve.
11. 4R00120	Washer, Knob.
12. SR00417	Nut, 10 x 24, Hex.
13. 4R00096	Valve, Angle, Pressure Relief, Complete.
14. 4R00054	Connection "T".
15. 4R00074	Nut, Coupling, Steam Trap.
16. 4R00084	Trap, Steam, Complete.
17. 4R00086	Element and Cap, Steam Trap.

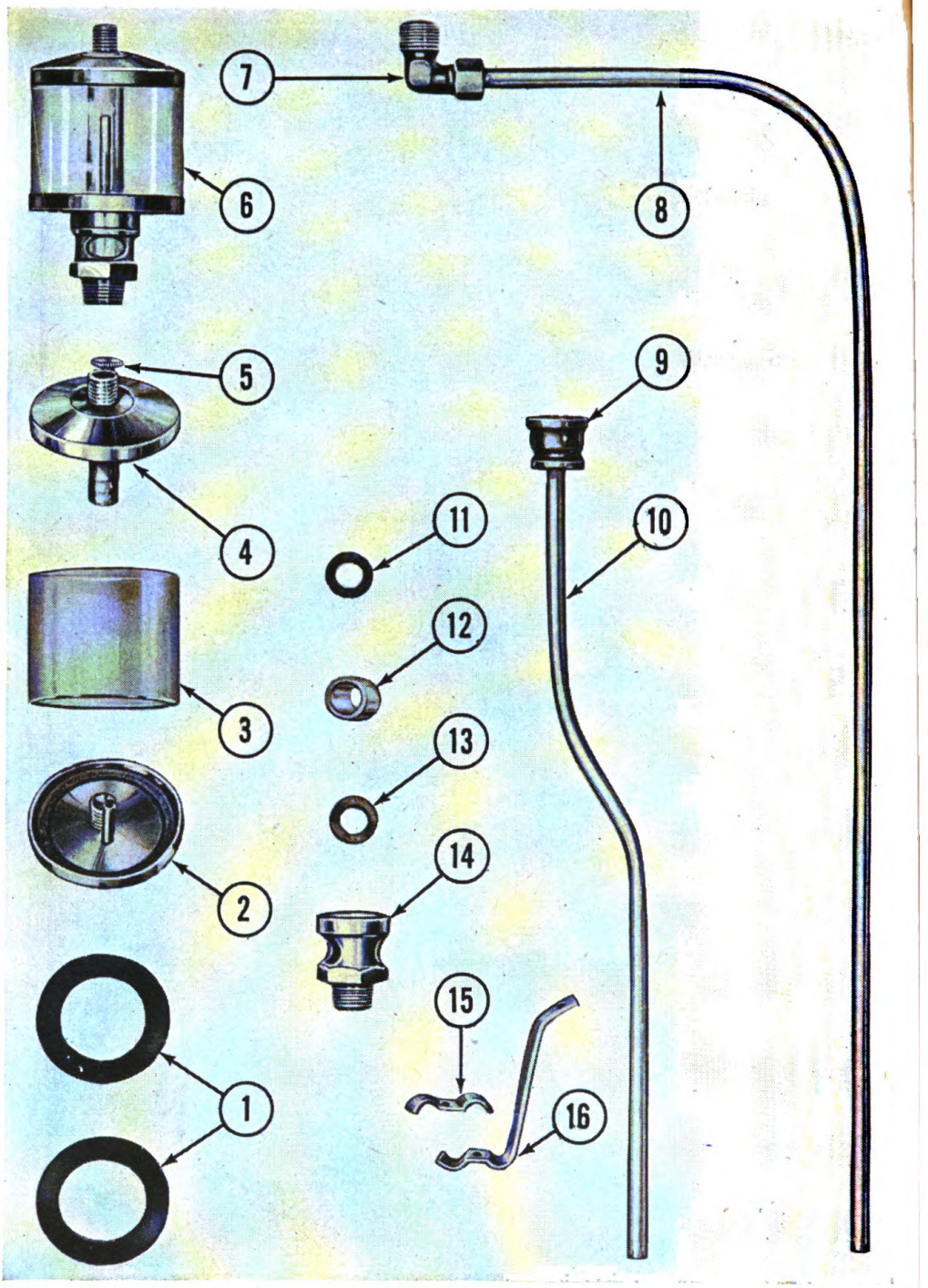
Figure 7. Parts for horizontal laboratory autoclave, item No. 4011028, manufactured by Gotham Scientific Co.

from the water supply cup during operation. A more serious leak might be determined before operation by closing the water supply valve and filling the water supply cup with water. If the water supply valve is functioning properly the water supply cup should maintain its level indefinitely. This valve has a replaceable washer, 4R00002 (fig. 6, part 16). Attention is called to the fact that the part listed as 4R00002, Washer, Globe Valve, also includes the valve stem as shown by the double arrows of part 16 in figure 6. To replace the washer remove the hex nut, SR00417 (fig. 6, part 21), from the valve knob, 4R00070 (fig. 6, part 18), by turning the nut counterclockwise. Remove the valve knob. Remove the valve bonnet and packing nut, 4R00110 (fig. 6, part 17), from the valve body, 4R00108 (fig. 6, part 12), by turning counterclockwise. Remove packing nut from valve bonnet and the combination washer and stem from the valve bonnet. Reassemble valve by reversing procedure.

42. REPAIR OF BOTTOM NEEDLE VALVE. The bottom needle valve, 4R00014 (fig. 6, part 11), is supplied as a complete part, including the lower glass gauge holder. There are no repairs to be made on this valve as it does not have a replaceable washer or seat. Should the valve become worn it will be necessary to replace the entire valve.

43. REPAIR OF PRESSURE RELIEF ANGLE VALVE. Seepage through the pressure relief angle valve, 4R00096 (fig. 7, part 13), can be detected by difficulty in maintaining the proper sterilizing pressure and also by a discharge from the pressure relief valve waste tubing, 4R00094 (fig. 1, part 4). This valve has a replaceable washer, 4R00001 (fig. 7, part 6). To replace the washer, remove the valve bonnet from the valve body, 4R00098 (fig. 7, part 5), by turning counterclockwise. The washer will slip from the valve stem, 4R00104 (fig. 7, part 8). Place new washer on stem and reassemble valve by reversing the procedure for disassembling.

44. BURNER REPAIR. Attempt no repairs on the gasoline burner, 9R10002 (fig. 1, part 18), until thoroughly familiar with repair procedure as outlined in TM 8–615, Gasoline Stoves and Burners.



Med. Dept. No.	Nomenclature	Med. Dept. No.	Nomenclature
1. 4R00010	Washer, Evacuation Chamber, Glass.	9. 4R00056	Coupling; Evacuation Chamber Waste Tubing.
2. 4R00046	Base, Evacuation Chamber.	10. 4R00092	Tubing, Waste, Evacuation Chamber.
3. 4R00008	Glass, Evacuation Chamber.	11. 4R00052	Washer, Evacuation Chamber Port.
4. 4R00040	Cap, Evacuation Chamber.	12. 4R00050	Glass, Evacuation Chqmber Port.
5. 4R00042	Plug, Evacuation Chamber.	13. 4R00052	Washer, Evacuation Chamber Port.
6. 4R00038	Chamber, Evacuation, Complete.	14. 4R00048	Port, Evacuation Chamber.
7. 4R00064	Elbow, Pressure Relief Valve Tubing.	15. 4R00034	Bracket, Short, Tubing.
8. 4R00094	Tubing, Waste, Pressure Relief Valve.	16. 4R00036	Bracket, Long, Tubing.

Figure 8. Parts for horizontal laboratory autoclave, item No. 4011028, manufactured by Gotham Scientific Co.

CHAPTER 6

HOSPITAL STERILIZER

SECTION I. PREVENTIVE MAINTENANCE SERVICES

45. DRESSING STERILIZER. a. Daily. (1) Clean strainer in bottom front of sterilizer chamber.

(2) On hospital supply, fill vacuum breaker valve loosely with fresh cotton.

(3) Raise safety valve lever to insure free movement.

(4) Clean sterilizer chamber.

b. Monthly. Remove accumulated sediment from steam strainer and steam supply line.

46. WATER STERILIZER. a. Daily. (1) On hospital supply, fill air filter and air intake valve with fresh dry cotton.

(2) Raise safety valve lever to insure free movement.

b. Weekly. Flush tank.

c. Monthly. Check cotton water filter elements and replace when they become dirty.

47. UTENSIL AND INSTRUMENT STERILIZER. Wash boiler daily to remove lime deposits.

SECTION II. TROUBLE SHOOTING

48. DRESSING STERILIZERS. a. Wet dressings.

Possible causes	*Possible remedies*
Strainer in chamber drain plugged.	Clean strainer.
Check valve stuck.	Clean and replace disk. (par. 51*b*).
Defective trap.	Clean and replace seat, gasket, and element (par. 51*l*).
Jacket full of water.	Check steam return line.
Abnormally wet steam.	Check size of steam supply line from boiler.
Poor insulation.	Check insulation.
Incorrect operation.	Read operating directions (par. 13).

b. Noise.

Possible causes	*Possible remedies*
Water in steam supply line.	Check steam return line.
Water in jacket.	Check steam return line.

c. Solutions boiling over.

Possible causes	*Possible remedies*
Lowering pressure in chamber too fast.	Allow autoclave to cool without venting chamber.
Opening door before chamber gauge drops to zero.	Wait until chamber gauge drops to zero.

d. Low temperature reading on thermometer.

Possible causes	*Possible remedies*
Inadequate steam pressure in jacket.	Check steam supply.
Obstruction in chamber return line.	Clean strainer in chamber drain outlet.
	Clean check valve (par. 51*b*).
	Clean trap (par. 51*l*).
	Clean line.

49. WATER STERILIZERS. a. Plugging of cooling coils.

Possible causes	*Possible remedies*
Lime deposits in coil.	Refer to higher echelon.

b. Slow heating.

Possible causes	*Possible remedies*
Lime deposits on steam coils.	Flush tanks under pressure (par. 51*m*).
Poor steam supply.	Check pressure on steam supply.

c. Safety valve blowing continuously.

Possible causes	*Possible remedies*
Faulty safety valve.	Replace.
Control valve not closing properly.	Repair control valve (pars. 52*a*, 53*a*, 54*a* and 55*a*).

50. UTENSIL AND INSTRUMENT STERILIZERS. a. Lid slamming.

Possible causes	*Possible remedies*
Oil check disconnected.	Connect oil check properly (pars. 60 to 63).
Oil level too low in oil check.	Maintain oil level in oil check.
Oil check out of adjustment.	Adjust oil check (pars. 60 to 63).

b. Slow heating.

Possible causes	*Possible remedies*
Lime deposits on coils.	Clean coils (par. 51*m*).
Poor steam supply.	Check steam supply.

SECTION III. MAINTENANCE OPERATIONS

51. GENERAL REPAIR PROCEDURE. All units, assemblies, subassemblies, valves or other component parts which can be repaired, replaced or adjusted by 1st and 2d echelon of maintenance will be covered in this section of the manual. Any repair problem which is not covered in this section of the manual will be considered a function of the 4th or 5th echelon of maintenance.

a. Valves. (1) External valve leaks. (*a*) Attempt to stop leaks by tightening couplings at point of leak. If tightening fails, use some type of pipe seal, such as Lead, white, basic-carbonate, type C. To apply, disconnect the faulty coupling or connection and coat both the male and female ends with the pipe seal. Make connections while ends are still wet and allow to dry to a permanent seal before using.

(*b*) To stop leaks at the valve stem (fig. 9, part 2) tighten the packing nut (fig. 9, part 3) by turning clockwise.

Caution: If tightening of packing nut does not stop leak, the packing string, SR00574 (fig. 9, part 5), within the nut must be replaced.

(*c*) To replace valve packing string turn the packing nut counterclockwise until free of the valve bonnet (fig. 9, part 6). Slide packing nut along valve stem toward knob, 7R05916 (fig. 9, part 1). This operation exposes the packing gland (fig. 9, part 4) which is a sleeve fitting around the valve handle stem and extending into the valve housing. Slide packing gland along valve stem toward knob exposing the actual valve packing receptacle. Wind a prepared valve packing string around the valve stem and force into the receptacle. When receptacle is filled with the packing string, force packing gland into the receptacle and then slide packing nut into place and tighten by turning clockwise.

(2) Internal valve leaks. (*a*) Internal leaks are difficult to detect unless they are extreme. The term "internal leak" refers to a leak of either steam or water, as the case may be, through the valve when it is in the closed or off position.

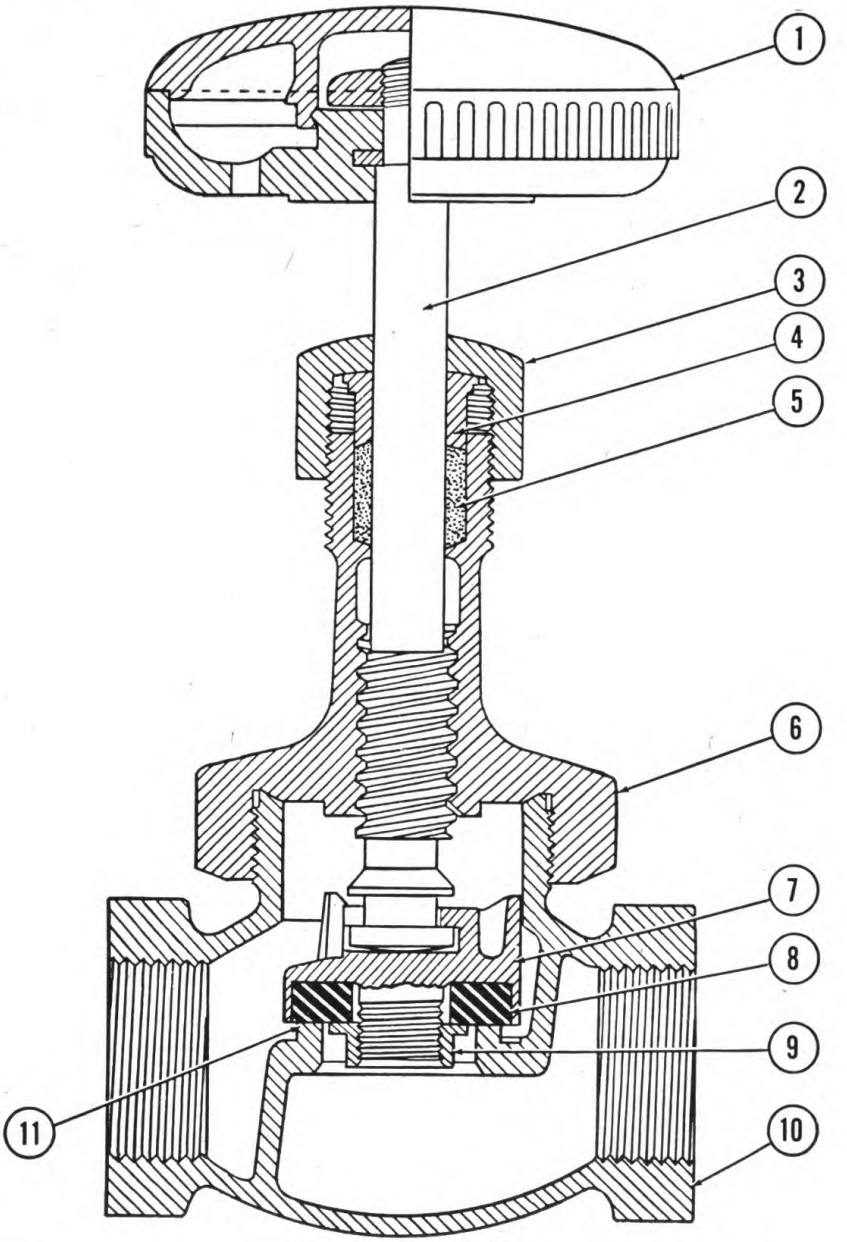
(*b*) Cleaning valve seat (fig. 9, part 11) and valve disks, SR00029 (fig. 9, part 8), involves removing any foreign matter in the valves which may keep the disks from seating properly. Remove the valve bonnet from the valve housing by turning coupling counterclockwise. The valve knob, stem and disk can then be removed from valve by pulling outward toward knob.

Caution: In cleaning the valve disk and valve seat care should be taken not to damage the surface of either.

(*c*) To replace the valve disk, follow same procedure for disassembling that is followed for cleaning. Disk holder, SR00493 (fig. 9, part 7), will slip from valve stem. Remove disk from holder by removing retaining nut (fig. 9, part 9) on face of disk holder by turning nut counterclockwise. Pry the disk from the holder by using a pointed instrument and then insert new disk and reassemble valve by reversing procedure.

b. Check valves. (1) To clean or open check valve, remove the cap (fig. 10, part 2) from the valve housing (fig. 10, part 7) by turning counterclockwise. Remove pivot pin retainer nut (fig. 10, part 1) by turning counterclockwise. This exposes the pivot pin (fig. 10, part 3). Remove pivot pin by pulling through side of housing. Removal of pivot pin releases disk holder (fig. 10, part 8). Lift disk holder from housing. Clean pivot pin, disk, SR00524 (fig. 10, part 4), and interior of housing. (Do not use a

sharp or hard instrument for this purpose.) Entire check valve can be rendered useless by marring any part of the assembly. When replacing disk on pivot pin, caution must be taken that face of disk is placed in opposite direction to arrow on exterior of check valve housing.



Med. Dept. No.	Nomenclature	Med. Dept. No.	Nomenclature
1. 7R05916	Knob.	7. SR00493	Holder, Disk, ⅜ Inch Jenkins Valve.
2.	Valve Stem.	8. SR00029	Valve Disk, Jenkins, ⅜ Inch, Hard.
3.	Packing Nut.	9.	Disk Retainer Nut.
4.	Packing Gland.	10.	Valve Housing.
5. SR00574	Packing, String, Valve ⅛ Inch.	11.	Valve Seat.
6.	Valve Bonnet.		

Figure 9. Steam valve, part No. SR00507.

(2) To install new disk, disassemble check valve as for cleaning. Remove disk retaining nut (fig. 10, part 6) by turning counterclockwise. Remove

Med. Dept. No.	Nomenclature
1.	Pivot Pin Retainer Nut.
2.	Cap.
3.	Pivot Pin.
4.	SR00524 Disk, Steam, Jenkins ½ Inch Check Valve.
5.	Seat.
6.	Disk Retainer Nut.
7.	Valve Housing.
8.	Valve Disk Holder.

Figure 10. Steam check valve, part No. SR00523.

old disk from disk holder and insert new disk. Reassemble by reversing procedure.

(3) Check valves must be installed in a horizontal run of steam supply line with cap up. The arrow stamped on exterior of housing must point in the direction of steam flow.

c. Diaphragms. (1) All automatic steam control valves have some form of diaphragm as part of the operating mechanism within the valve housing. Normal indications of defective or fractured diaphragms are: steam escaping from the valve housing or steam pressure within sterilizer continuing to rise with control valve set for minimum pressure.

(2) The procedure for replacing diaphragm is given for each type of control valve in the paragraphs for repairs of the various types of sterilizers. It is advisable to replace the diaphragm gaskets when replacing diaphragms.

d. Door gaskets. When door fails to close steam tight, under normal closing pressure without straining handwheel, gasket should be replaced. In removing old gasket, scrape groove in door frame clean. Gasket is cut to a tight fit in groove and must be forced in, a short section at a time, without stretching. Should gasket appear too long, do not cut it, but start over again, compressing short sections as inserted in groove, to take up full length. Coat face of gasket with powdered graphite mixed with water or tacking graphite. Use talcum powder with water to prevent gasket from sticking to door under heat. Close door tight to seal gasket firmly.

e. Four-way operating valves. These valves are used by the American Sterilizer Co. and the Hospital Supply Co. on some models of the dressing sterilizers. There is no service to be performed by 1st and 2d echelon on this type valve.

f. Knobs. (1) American Sterilizer Co. knobs can be removed by turning the coupling nut, just under or in back of knob, counterclockwise until free of the valve stem. The knob may have to be given a few counterclockwise turns to free it from the valve stem.

(2) Wilmot Castle Co. knobs can be removed by turning the lock nut on face of knob counterclockwise. Remove the metal disk bearing the name of the valve. Then remove the knob. When replacing the knob, replace the same metal valve name disk.

(3) Hospital Supply Co. and Scanlan-Morris Co. knobs have a removable plastic face stamped with the type of valve. To replace damaged knobs, remove the face of the knob by inserting a small screw driver or blunt end rod through either of the small holes found in the rear of the knob. In this manner the face of the knob can be pushed off. Do not attempt to pry off the knob face. Removal of the knob face will expose the knob lock nut on the valve stem. Remove lock nut by turning counterclockwise.

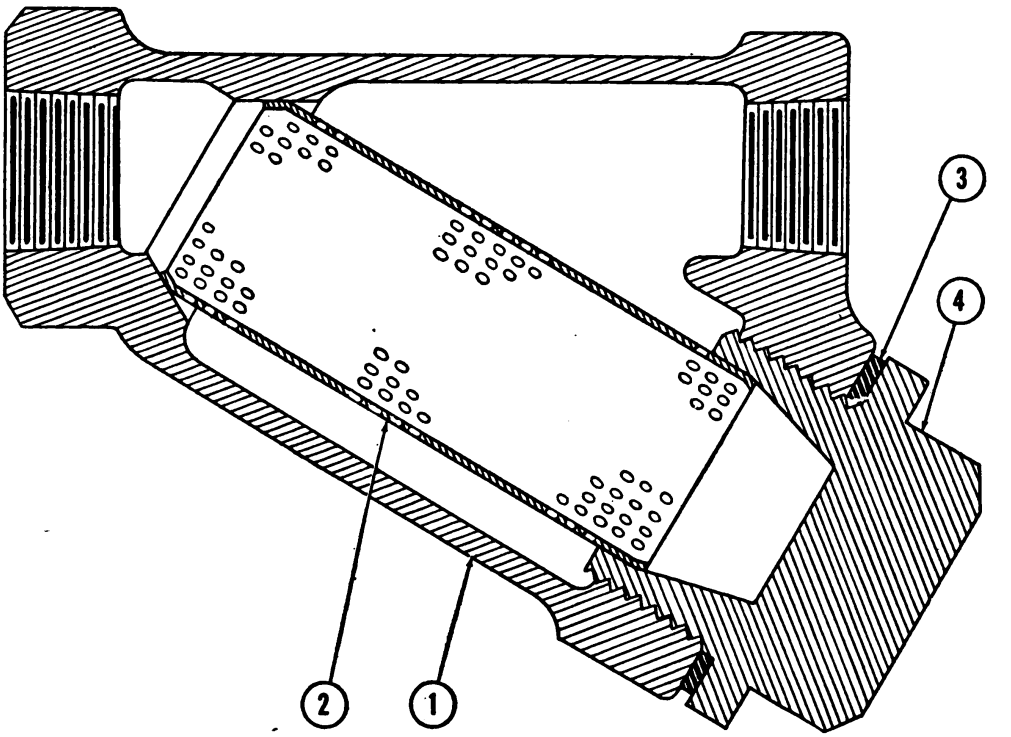
g. Pressure gauges and thermometers. There is no service which can be performed on these instruments by 1st or 2d echelons of maintenance. Defective gauges and thermometers should be replaced.

h. Pipe and pipe fittings. Information on pipe and fittings is given in paragraph 10 of this manual.

i. Safety valves. No service should be attempted on any safety valve by 1st or 2d echelon of maintenance. Safety valves are a factory tested device to protect the operators of the sterilizers and any other occupants of the

sterilizing room. Improper repairs are far more dangerous than no repairs. Test safety valves twice weekly by lifting the test lever. With pressure in sterilizer at normal operating range only a slight pressure on the test lever should be necessary to release valve. Any safety valve which fails to release when tested in this manner should be replaced. Until it is replaced the operator of the sterilizer should constantly watch the steam pressure gauges during the sterilizing period.

j. Steam control valves. The repair of steam control valves is covered in detail in the following paragraphs for the repair of each manufacturer's model of the four items composing the hospital sterilizer. Repair procedure is given for the steam control valves on utensil and instrument sterilizers. Not all models of utensil and instrument sterilizers are supplied with steam control valves. On such models, the remainder of the plumbing and valves are the same.



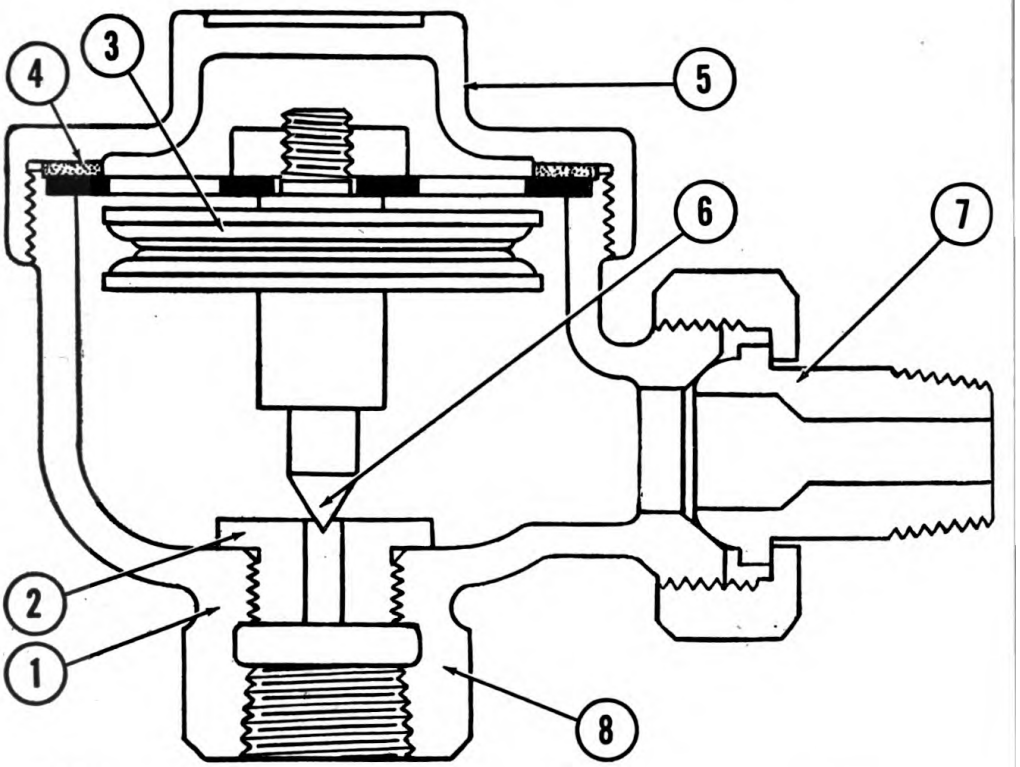
Med. Dept. No.	Nomenclature	Med. Dept. No.	Nomenclature
1.	Strainer Housing.	3.	Gasket.
2.	Strainer.	4.	Plug.

Figure 11. Steam strainer, part No. SR00504.

k. Steam strainers. (1) To clean, remove the plug (fig. 11, part 4), on lower angle end of strainer housing by turning clockwise (viewed from top). Strainer proper (fig. 11, part 2) is attached to this plug and can be removed from plug by slipping it from holder. Clean strainer and interior of strainer housing thorouhgly. Be certain to replace gasket with reassembling strainer.

(2) Install steam strainers in system with point of "V", formed by strainer housing, pointing to source of steam and strainer angle down. Most steam strainers will have housing marked with an arrow and should be installed so arrow points in the direction of the steam flow.

l. Steam traps. (1) To clean, remove the cap (fig. 12, part 5) on trap housing (fig. 12, part 1) by turning counterclockwise. On some traps four cap bolts (fig. 13, part 6) must be removed. This operation will expose the element, SR00500 (fig. 12, part 3). Lift element from trap housing. Remove any deposits or foreign matter from this assembly. Clean interior of bowl, formed by trap housing, the removable valve seat, SR00500 (fig. 12, part 2), in base of bowl and the outlet through valve seat. In cleaning the trap take caution not to mar the valve point (fig. 12, part 6), valve seat or to damage the element in any manner. When reassembling trap, it is advisable to use a new gasket, SR00500 (fig. 12, part 4), between cap and the housing.



Med. Dept. No.		Nomenclature	Med. Dept. No.	Nomenclature
1.		Trap Housing.	5.	Cap.
2. Seat	SR00500	Seat, Gasket, and Element, ⅜ Inch, 60 Lbs., Webster No. 780–2.	6.	Valve Point.
3. Element			7.	Inlet Connection.
4. Gasket			8.	Outlet Connection.

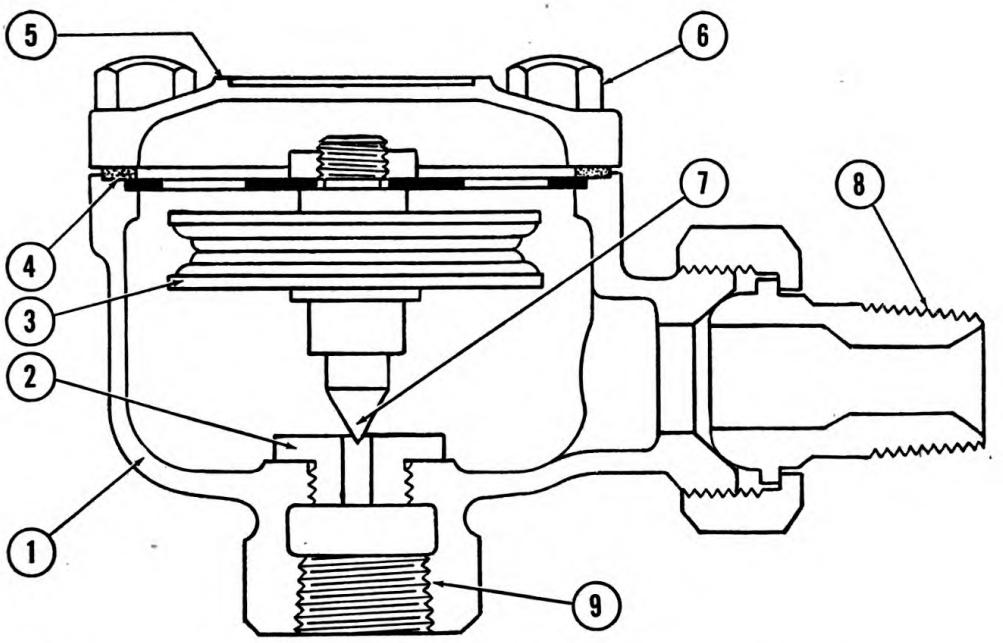
Figure 12. ⅜-inch steam trap, part No. SR00499.

(2) To replace element and valve seat, disassemble trap as for cleaning. Faulty element, worn valve pin, or worn seat necessitates the replacement of the element, seat, and gasket. Remove by lifting out as for cleaning. The valve seat is removed by turning counterclockwise.

(3) No adjustment can be made on a steam trap.

(4) To replace steam trap, install new trap so steam flows into the side coupling (fig. 12, part 7) and out of the bottom center coupling (fig. 12, part 8).

m. Boilers and coils. Removal of lime deposits is described below. (1) Dressing sterilizer. Clean sterilizer chamber daily. Do not scrape any deposit



Med. Dept. No.		Nomenclature
1.		Trap Housing.
2. Seat 3. Element 4. Gasket	SR00502	Seat, Gasket, and Element, ½ Inch, 60 Lbs., Webster No. 782–2.
5.		Cap.

Med. Dept. No.	Nomenclature
6.	Cap Bolts.
7.	Valve Point.
8.	Inlet Connection.
9.	Outlet Connection.

Figure 13. ½-inch steam trap, part No. SR00501.

from the interior of the chamber. Wipe thoroughly with a damp cloth which is sufficient to remove loose deposits.

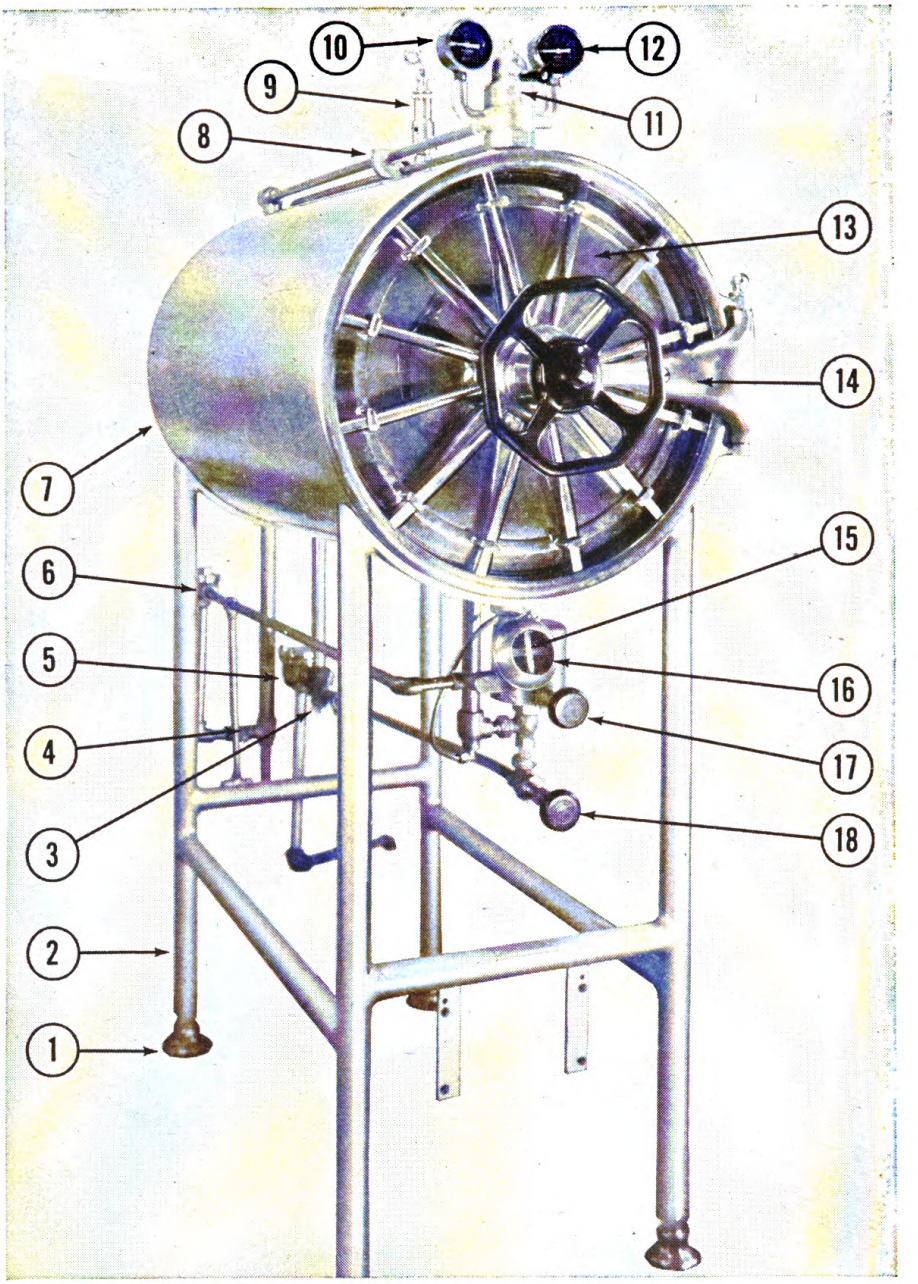
(2) Water sterilizer. Flush tanks weekly by opening drain valve after sterilizing when thermometer drops to 230° Fahrenheit, for about 10 seconds.

(3) Utensil sterilizer. Wash boiler daily and wipe with a damp, clean cloth. This is usually sufficient to remove loose lime deposits. If lime deposit has already accumulated, it may be removed by boiling a solution of 5 percent hydrochloric acid or 15 per cent acetic acid in the sterilizer for several hours, or until the scale has become soft enough to scrape off.

Caution: On zinc coated steel sterilizers do not use acid for the removal of lime deposits.

52. DRESSING STERILIZER, AMERICAN MODEL. a. Steam control valve, 7R05768 (fig. 14, part 17 and fig. 15).

(1) To correct the indicator nut, 7R05784 (fig. 15, part 3), to actual jacket, pressure, turn knob, 7R05766 (fig. 15, part 2), slowly until the hole in the indicator nut is accessible through the slot of the pressure adjustment scale, 7R05786 (fig. 15, part 4). Insert a nail or any pointed instrument into the hole of the indicator nut to hold it stationary. If jacket gauge indicates a pressure higher than that indicated on the control valve, turn the knob counterclockwise. This will reduce the pressure in the jacket while the indicator nut will not be changed. This must be a very gradual adjustment. It will be necessary to partially exhaust the sterilizer and to permit the pressure to build up to a maximum after each step of the adjustment. Con-

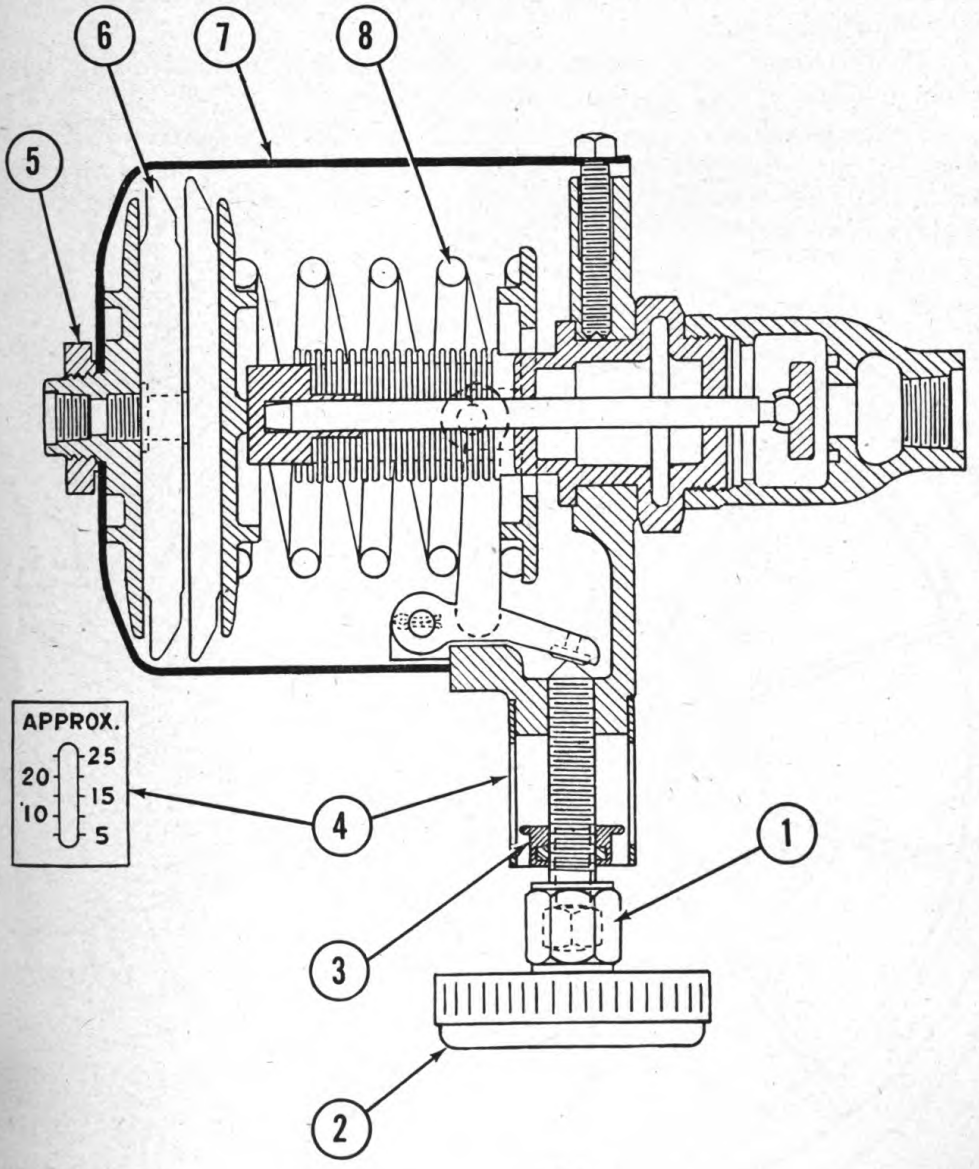


Med. Dept. No.	Nomenclature
1. 7R05772	Flange, Leveling Floor.
2. 7R05774	Stand.
3. SR00503	Strainer, Steam, ⅜ Inch, Complete.
4. SR00521	Valve, Steam, Check, ⅜ Inch, Jenkins No. ABTVO, Complete
5. SR00499	Trap, Steam, ⅜ Inch, 60 Lbs., Webster No. 780–2, Complete. Assembly; for jacket return.
6. SR00499	Trap, Steam, ⅜ Inch, 60 Lbs., Webster No. 780–2, Complete. Assembly; for chamber return.
7. 7R05776	Shell, Outer.
8. 7R05778	Valve, Vacuum Release. For jacket.
9. SR00505	Valve, Safety, ½ Inch, 25 Lbs., Complete.
10. SR00496	Gage, Steam, 2½ Inch, Compound 30 Lb. Pressure, 30 Inch Vacuum, With $^{13}/_{32}$–27 x ⅜-Inch Stud. For chamber.
11. 7R05770	Valve, Operating, 4-Way, Complete.
12. SR00497	Gage, Steam, 2½ Inch, 30 Lb. Pressure, With $^{13}/_{32}$–27 x ⅜-Inch Stud. For jacket.
13. 7R05780	Door, Complete.
14. 7R05782	Hinge, Door.
15. 7R05756	Thermometer.
16. 7R05758	Cover and Glass, Thermometer.
17. 7R05768	Valve, Steam Control, Complete.
18. SR00508	Valve, Steam, Jenkins No. ABTJI, ⅜ Inch, Complete. Assembly; for supply.

Figure 14. Dressing sterilizer, item No. 7910107, manufactured by American Sterilizer Co.

tinue the adjustment until the jacket gauge indicates the same pressure as the indicator on the valve. If jacket gauge indicates a pressure lower than that indicated on the control valve, hold the indicator nut stationary and turn the knob clockwise following the same procedure as explained above. This adjustment should be made at 15 pounds pressure so any variation at maximum and minimum settings will be kept at the smallest possible value.

(2) To replace diaphragm, 7R05754 (fig. 15, part 6), remove the small pressure tubing from top of control cover, 7R05790 (fig. 15, part 7), by turn-



Med. Dept. No.	Nomenclature	Med. Dept. No.	Nomenclature
1. 7R06544	Nut, Adjusting, Steam Control Valve. (For Water Sterilizer).	5. 7R05788	Nut, Coupling, Steam Control Valve.
2. 7R05766	Knob.	6. 7R05754	Diaphragm, Steam Control Valve.
3. 7R05784	Nut, Indicator.	7. 7R05790	Cover, Steam Control Valve.
4. 7R05786	Scale, Pressure Adjustment, Steam Control Valve.	8. 7R05792	Spring, Pressure Coil, Steam Control Valve.

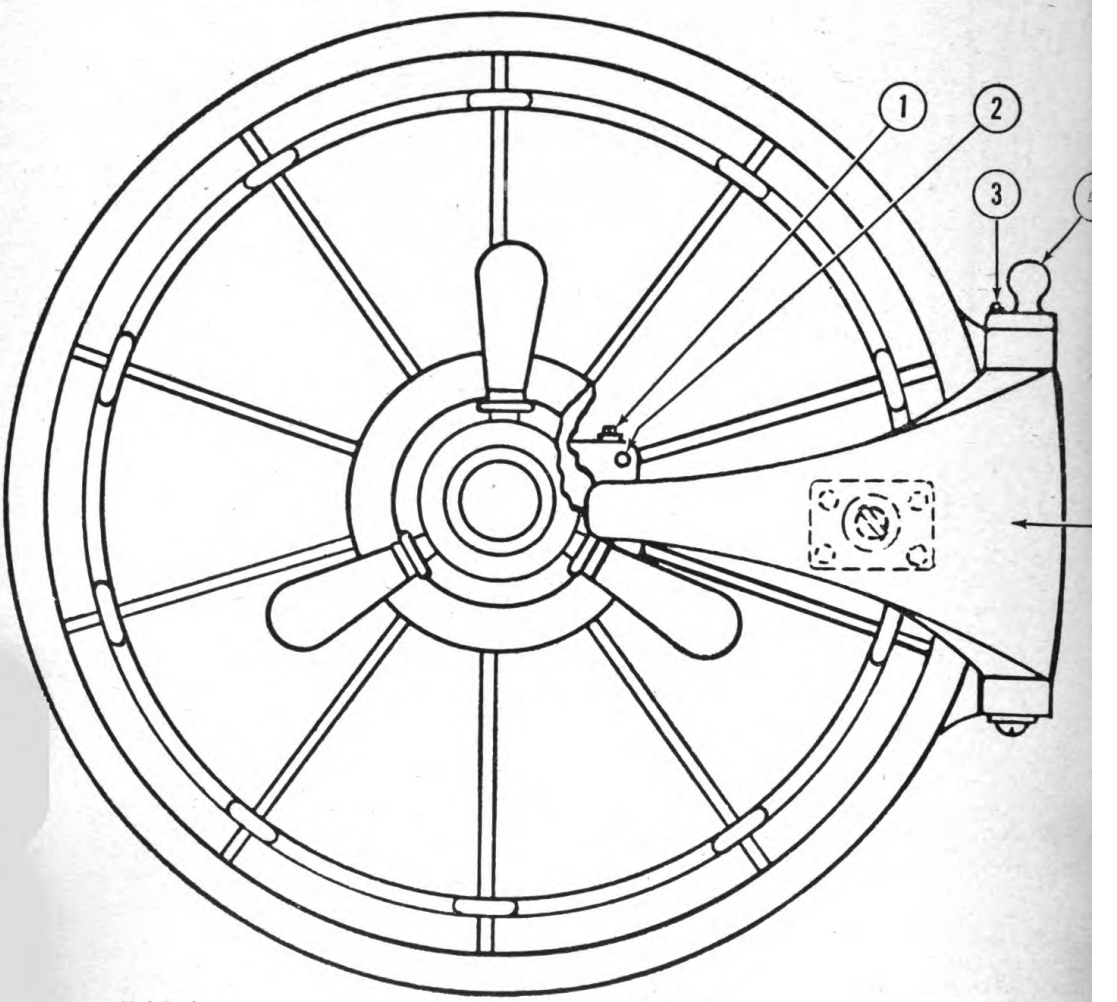
Figure 15. Steam control valve, part No. 7R05768, for dressing sterilizer and water sterilizers, American Models.

ing coupling nut counterclockwise. Remove the four screws which fasten the control cover to the control frame and remove cover. Remove the diaphragm from the cover by turning coupling nut, 7R05788 (fig. 15, part 5), counterclockwise. When disassembling control, note the position of the pressure coil spring, 7R05792 (fig. 15, part 8), and be certain to replace it in the same position. Insert new diaphragm and reassemble by reversing the procedure.

b. Door adjustment. (1) To raise door, 7R05780 (fig. 16), loosen door setscrew, 7R05796 (fig. 16, part 2), by turning counterclockwise. Turn adjusting screw, 7R05794 (fig. 16, part 1), clockwise, viewed from the bottom of door hinge.

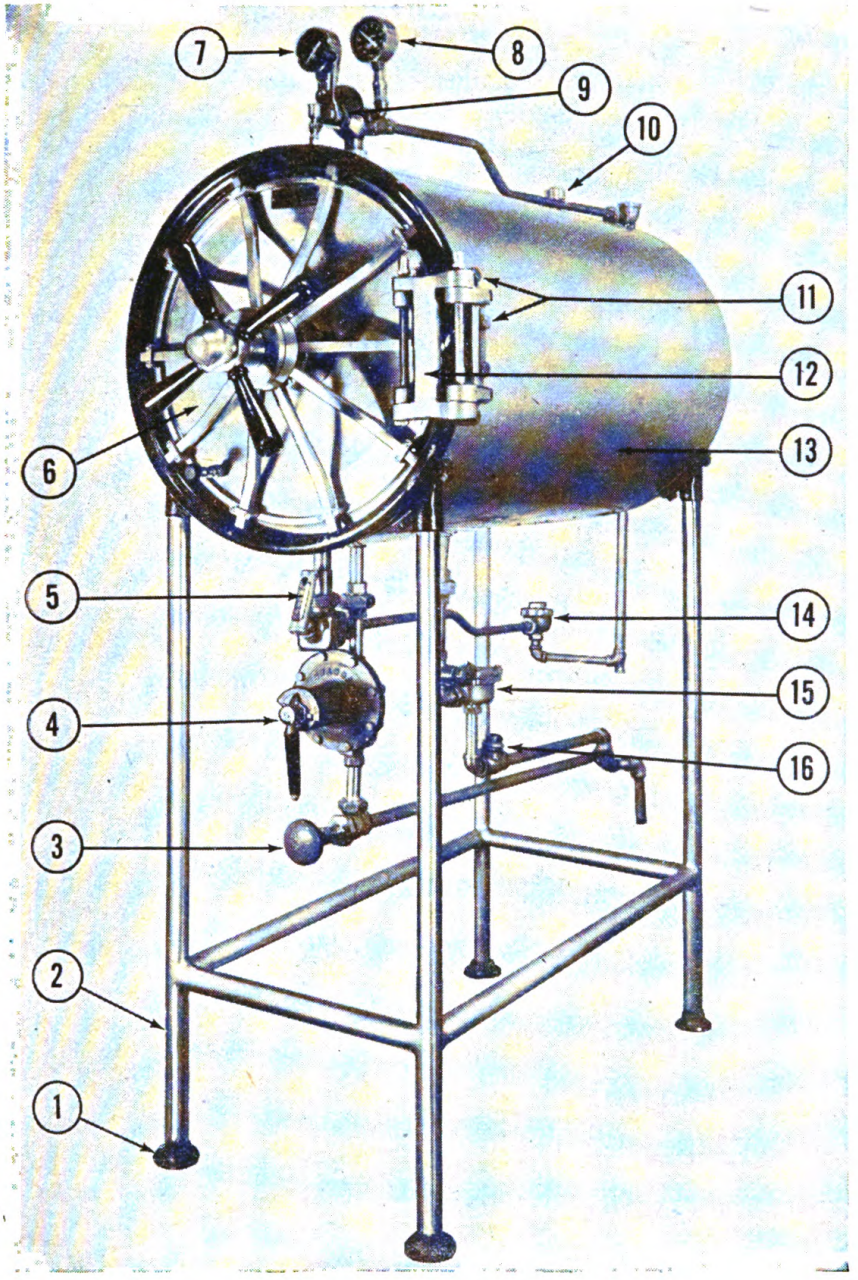
(2) To lower door, loosen door setscrew and turn adjusting screw counterclockwise, viewed from bottom.

(3) To move door to the left or right, loosen the hinge setscrew, SR00579 (fig. 16, part 3). Insert a rod into the hole and turn the hinge adjusting knob, 7R05798 (fig. 16, part 4). After adjustment, be certain to tighten all setscrews and adjusting screws.



Med. Dept. No.	Nomenclature
1. 7R05794	Screw, Adjusting, Door.
2. 7R05796	Screw, Set, Door.
3. SR00579	Setscrew, $\frac{5}{16}$–24 x $\frac{5}{16}$-Inch, Headless, Round Pt. Hinge adjusting.
4. 7R05798	Knob, Adjusting, Hinge.
5. 7R05782	Hinge, Door.

Figure 16. Door, part No. 7R05780, for dressing sterilizer, American Model.

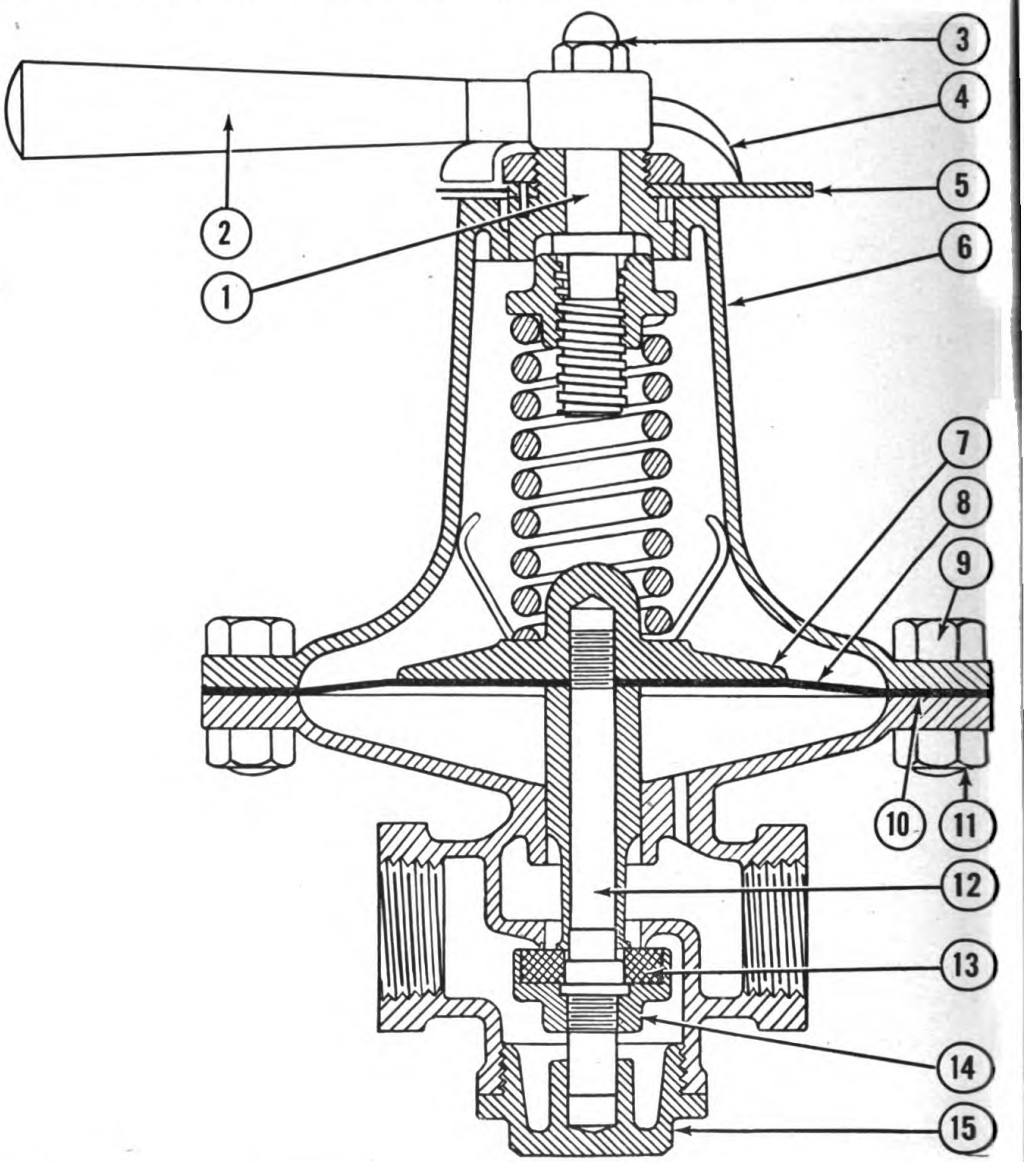


Med. Dept. No.	Nomenclature
1. 7R05624	Flange, Leveling Floor.
2. 7R05626	Stand.
3. SR00512	Valve, Steam, Jenkins No. ABTJI, ½ Inch, Complete. Assembly, for steam supply.
4. 7R05622	Valve, Steam Control, Complete.
5. 7R05608	Thermometer.
6. 7R05634	Door, Complete.
7. SR00497	Gage, Steam, 2½ Inch, 30 Lb. Pressure, With 13/32-27 x ⅜-Inch Stud. For jacket.
8. SR00496	Gage, Steam, 2½ Inch, Compound, 30 Lb. Pressure, 30 Inch Vacuum, With 13/32-27 x ⅜-Inch Stud. For chamber.
9. 7R05620	Valve, Operating, 4-Way, Complete.
10. SR00505	Valve, Safety, ½ Inch, 25 Lbs., Complete.
11. 7R05656	Bolt, Door Hinge.
12. 7R05636	Hinge, Door.
13. 7R05632	Shell, Outer.
14. SR00499	Trap, Steam, ⅜ Inch, 60 Lbs., Webster No. 780–2, Complete. Assembly; for chamber return.
15. SR00501	Trap, Steam, ½ Inch, 60 Lbs., Webster No. 782–2, Complete. Assembly; for jacket return.
16. SR00523	Valve, Steam, Check, Jenkins No. ABVCO; ½ Inch, Complete. Assembly; for jacket return.

Figure 17. Dressing sterilizer, item No. 7910107, manufactured by Hospital Supply Co.

53. DRESSING STERILIZER, HOSPITAL SUPPLY MODEL. a. Steam control valve, 7R05622 (fig. 17, part 4 and fig. 18).

(1) To adjust control, place pointer (fig. 18, part 4) at 15 pounds on dial, 7R05642 (fig. 18, part 5). Allow pressure to build up in sterilizer jacket. If jacket pressure gauge indicates less than 15 pounds, remove the cap nut, SR00580 (fig. 18, part 3), by turning counterclockwise. Lift valve handle,



Med. Dept. No.	Nomenclature
1. 7R05638	Stem, Handle, Steam Control Valve.
2. 7R05640	Handle, Steam Control Valve.
3. SR00580	Nut, Cap, ¼ x 20, Hex. For steam control valve.
4.	Pointer.
5. 7R05642	Dial, Steam Control Valve.
6. 7R05644	Chamber, Spring, Steam Control Valve.
7. 7R05646	Plate, Diaphragm, Steam Control Valve.
8. 7R05604	Diaphragm, Steam Control Valve: Steam control valve rim.
9. SR00581	Bolt, 5/16-18 x 7/8 Inch, Hex H.M.
10. 7R05606	Washer, Diaphragm.
11. SR00422	Nut, 5/16 x 18, Hex. Steam control valve rim.
12. 7R05648	Stem, Steam Control Valve.
13. 7R05650	Disc, Steam Control Valve.
14. 7R05652	Holder, Disc, Steam Control Valve.
15. 7R05654	Plug, Rear, Steam Control Valve.

Figure 18. Steam control valve, part No. 7R05622, for dressing sterilizer, Hospital Supply Model.

7R05640 (fig. 18, part 2), off the handle stem, 7R05638 (fig. 18, part 1). Use the handle as a wrench to turn stem by placing it on the stem with the pointer away from the dial. Turn handle clockwise, very slowly, until jacket pressure gauge indicates 15 pounds. Then replace valve handle correctly with pointer indicating 15 pounds on the dial. Put cap nut in place and tighten by turning clockwise. If jacket pressure gauge indicates more than 15 pounds pressure, reverse valve handle as explained above and turn handle stem counterclockwise one full turn. Partially exhaust the sterilizer and then allow jacket pressure to build up again. Follow procedure given above to bring jacket gauge pressure to 15 pounds. Replace valve handle properly and fasten with cap nut. It is advisable to make this adjustment at 15 pounds so that any variation in the minimum to maximum range will be divided between the extremes of 10 pounds and 20 pounds.

(2) To replace diaphragm, 7R05604 (fig. 18, part 8), remove all rim nuts, SR00422 (fig. 18, part 11), and rim bolts, SR00581 (fig. 18, part 9). Remove spring chamber, 7R05644 (fig. 18, part 6), which will expose diaphragm plate, 7R05646 (fig. 18, part 7), and diaphragm. Remove rear plug, 7R05654 (fig. 18, part 15), by turning counterclockwise (viewed from the rear). Hold the valve stem, 7R05648 (fig. 18, part 12), stationary, from rear of valve, and remove diaphragm plate by turning counterclockwise. Diaphragm washer, 7R05606 (fig. 18, part 10), should be replaced each time the valve is disassembled. Put new diaphragm in place and reassemble valve by reversing procedure.

(3) To replace valve disk, 7R05650 (fig. 18, part 13), remove only the rear plug by turning counterclockwise (viewed from rear). Turn valve stem counterclockwise (viewed from rear) until free of diaphragm plate. Slip valve stem through rear of valve housing. Remove old valve disk from the receptacle and replace with new disk.

(4) To replace complete control valve, install valve with arrow cast on valve body pointing in the direction of the steam flow.

b. Door adjustments. (1) To raise the door, loosen the four hinge bolts, 7R05656 (fig. 17, part 11). Remove the upper hinge bolt and insert the required number of shims, or thin metal washers, between the sterilizer jacket and the door hinge at the position of the upper hinge bolt. Replace the upper hinge bolt, tighten all hinge bolts and test door action. The number of shims used will have to be increased or decreased until the proper adjustment of the door is obtained.

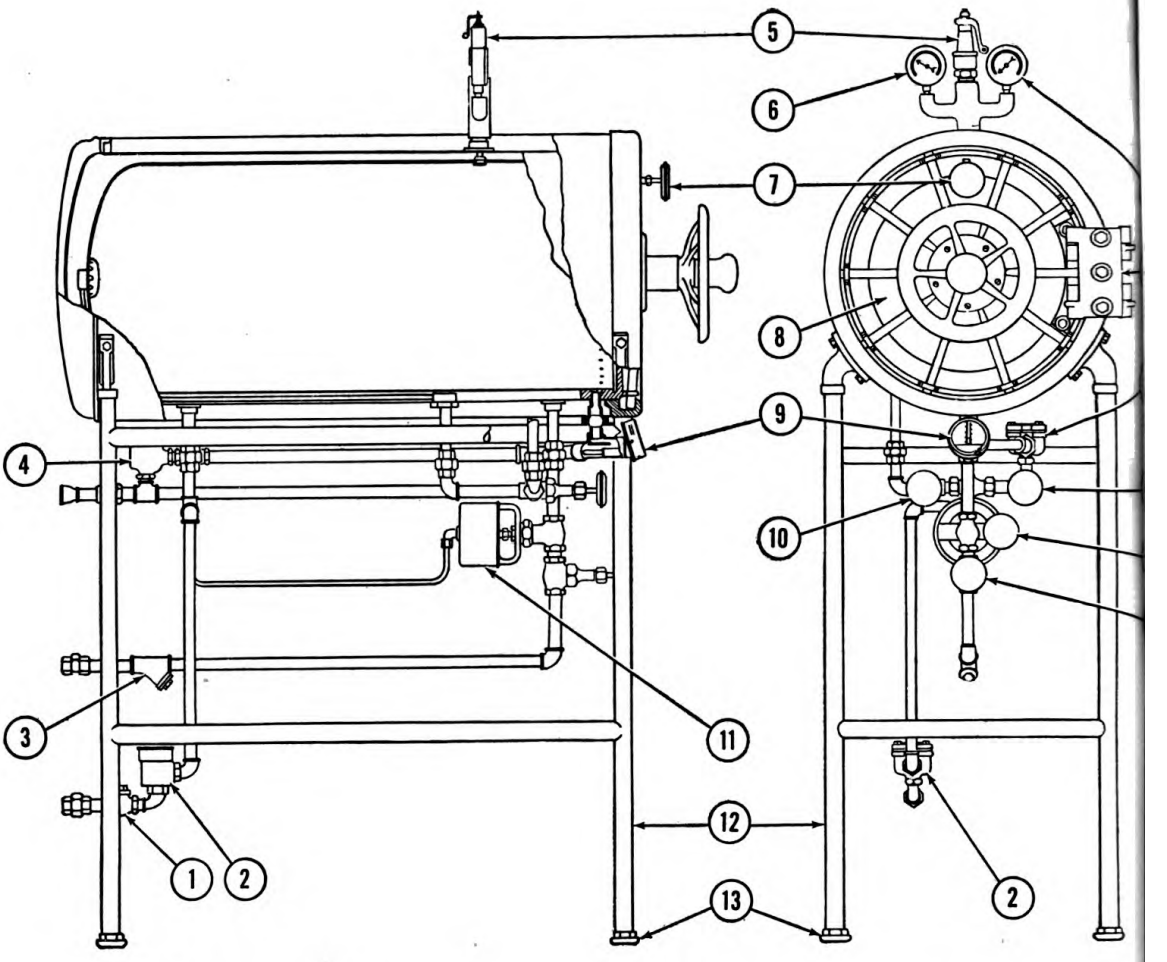
(2) To lower door, insert the shims at the position of the lower hinge bolt.

(3) To move the door to the right, insert shims between the sterilizer jacket and the door hinge on all hinge bolts.

(4) To move the door to the left, remove any shims between the sterilizer jacket and the door hinge. If there are no shims in use, the door is at the maximum position to the left. No further adjustment can be made.

54. DRESSING STERILIZER, SCANLAN-MORRIS MODEL. a. Steam control valve, 7R5918 (part 11, fig. 19, and fig. 20).

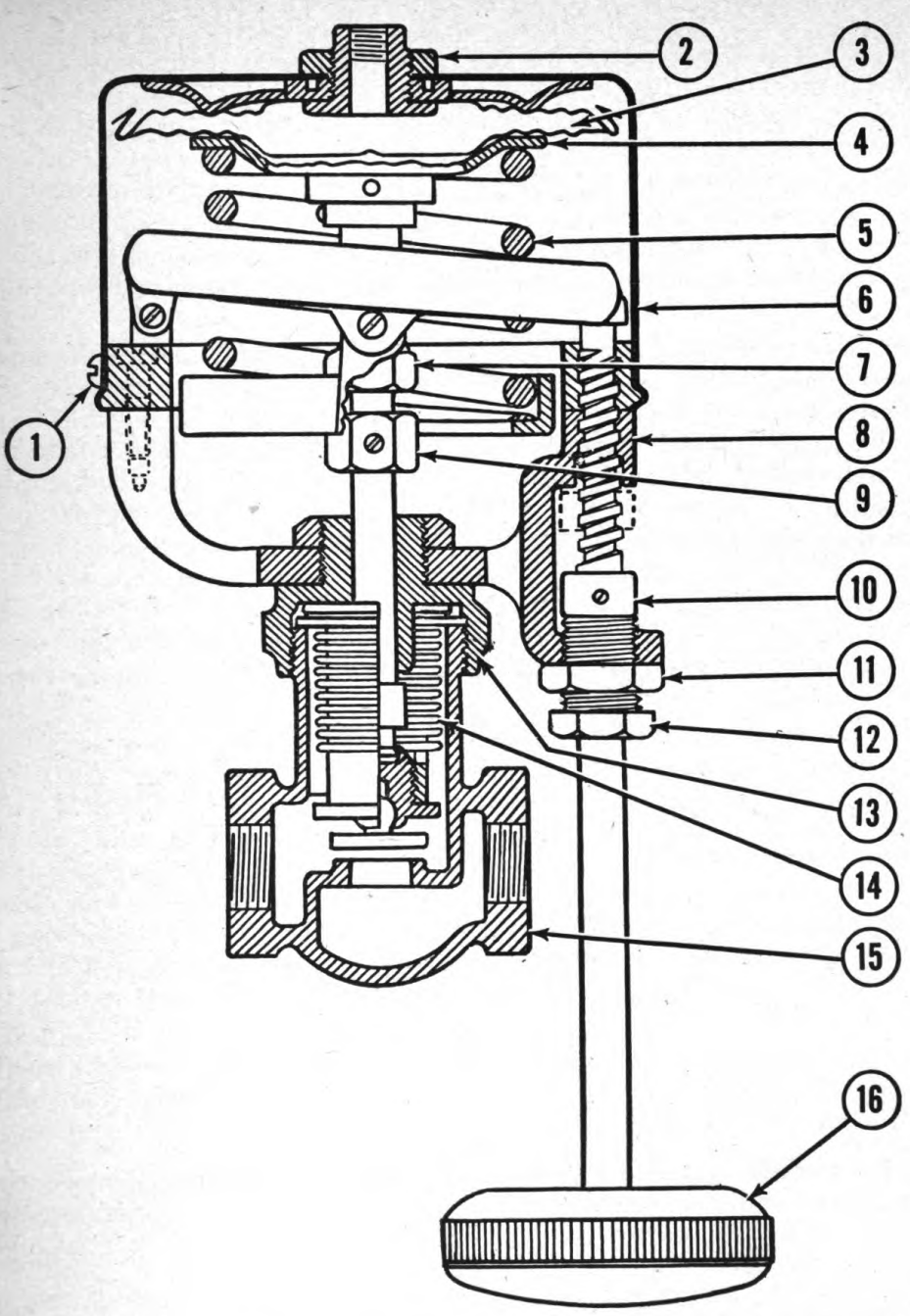
(1) To adjust steam control valve. Open steam supply valve fully. Allow sterilizer to become completely heated. Turn the knob, 7R05916 (fig. 20, part 16), clockwise until stop collar, 7R05946 (fig. 20, part 10), reaches the yoke, 7R05942 (fig. 20, part 8). This is the highest pressure setting. If jacket pressure gauge indicates over 20 pounds loosen stem lock nut, 7R05940 (fig. 20, part 7), and turn the stem adjusting nut, 7R05944 (fig. 20, part 9),



Med. Dept. No.	Nomenclature
1. SR00523	Valve, Steam, Check, Jenkins No. ABVCO, ½ Inch, Complete: Assembly; for jacket return.
2. SR00501	Trap, Steam, ½ Inch, 60 Lbs., Webster No. 782–2, Complete: Assembly; for jacket return.
3. SR00504	Strainer, Steam, ½ Inch, Complete.
4. SR00501	Trap, Steam, ½ Inch, 60 Lbs., Webster No. 782–2, Complete: Assembly; for chamber return.
5. SR00506	Valve, Safety, ¾ Inch, 22 Lbs.; Complete.
6. SR00496	Gage, Steam, 2½ Inch, Compound 30 Lb. Pressure, 30 Inch Vacuum, With 1 3/32–27 x ⅜-Inch Stud. For chamber.
7. 7R05920	Valve, Vacuum Break, Complete.
8. 7R05922	Door, Complete.
9. 7R05906	Thermometer.
10. SR00507	Valve, Steam, Jenkins No. ABTJA, ⅜ Inch, Complete: Assembly; for jacket to chamber.
11. 7R05918	Valve, Steam Control, Complete.
12. 7R05924	Stand.
13. 7R05926	Flange, Leveling Floor.
14. SR00497	Gage, Steam, 2½ Inch, 30 Lb. Pressure, With 1 3/32–27 x ⅜ Inch Stud. For jacket.
15. 7R05928	Hinge, Door.
16. SR00512	Valve, Steam, Jenkins No. ABTJI, ½ Inch, Complete. Assembly; for vacuum.
17. SR00511	Valve, Steam, Jenkins No. ABTJA, ½ Inch, Complete. Assembly; for supply.

Figure 19. Dressing sterilizer, item No. 7910107, manufactured by Scanlan-Morris Co.

counterclockwise until the jacket pressure gauge indicates 20 pounds. The sterilizer will have to be exhausted partially and then allowed to build up pressure repeatedly while this adjustment is being made. If the jacket gauge indicates less than 20 pounds slowly turn stem adjusting nut clockwise until jacket pressure gauge indicates 20 pounds. When proper maximum 20 pounds adjustment is obtained tighten stem lock nut by turning clockwise. To



Med. Dept. No.	Nomenclature
1. SR00111	Screw, 8–32 x ¼ Inch, R.H.M.: For steam control valve cover.
2. 7R05930	Nut, Rear Coupling, Steam Control Valve.
3. 7R05932	Diaphragm, Steam Control Valve.
4. 7R05934	Seat, Diaphragm, Steam Control Valve.
5. 7R05936	Spring, Pressure Coil, Steam Control Valve.
6. 7R05938	Cover, Steam Control Valve.
7. 7R05940	Nut, Lock, Steam Control Valve Stem.
8. 7R05942	Yoke, Steam Control Valve.
9. 7R05944	Nut, Adjusting, Steam Control Valve Stem.
10. 7R05946	Collar, Stop, Steam Control Valve. For locking steam control valve yoke.
11. SR00582	Nut, ⅝ x 18, Hex.
12. 7R05948	Nut, Adjusting, Steam Control Valve Yoke.
13. 7R05950	Bonnet, Steam Control Valve.
14. 7R05904	Bellows, Steam Control Valve. With stem and disc.
15. 7R05952	Body, Steam Control Valve.
16. 7R05916	Knob.

Figure 20. Steam control valve, part No. 7R05918, for dressing sterilizer, Scanlan-Morris Model.

adjust for the minimum 15 pounds pressure, slowly turn control knob counterclockwise until jacket pressure gauge indicates 15 pounds. This operation can be hastened by partially exhausting the sterilizer. Loosen yoke lock nut, SR00582 (fig. 20, part 11), by turning counterclockwise. Turn yoke adjusting nut, 7R05948 (fig. 20, part 12), clockwise until it reaches stop collar. Tighten yoke lock nut by turning clockwise. If jacket pressure cannot be lowered to the minimum 15 pounds pressure turn the yoke adjusting nut counterclockwise which will permit knob additional counterclockwise reduction turns.

(2) To replace diaphragm, 7R05932 (fig. 20, part 3), remove the small pressure tubing from the rear of the control cover by turning coupling nut counterclockwise (viewed from the rear). Remove the four screws, SR00111 (fig. 20, part 1), which fasten the cover, 7R05938 (fig. 20, part 6), to the yoke and remove the cover. Note the position of the pressure coil spring, 7R05936 (fig. 20, part 5), and the diaphragm seat, 7R05934 (fig. 20, part 4), as the cover is removed so that the parts will be replaced in their proper position when reassembling the valve control. Remove the diaphragm from the interior of the cover by turning the rear coupling nut, 7R05930 (fig. 20, part 2), counterclockwise. Install new diaphragm by reversing this procedure. It will be necessary to adjust the steam control valve after the installation of a new diaphragm.

(3) To replace the bellows, 7R05904 (fig. 20, part 14), loosen stem lock nut. Loosen setscrew in stem adjusting nut. Turn valve bonnet, 7R05950 (fig. 20, part 13), counterclockwise until free of valve body, 7R05952 (fig. 20, part 15). Pull valve cover and yoke from the valve body until bellows is clear of the valve body. Be careful not to damage the small pressure tubing. Turn valve stem counterclockwise until free of diaphragm. Turn stem locking nut counterclockwise to remove from valve stem. The bellows is supplied as a spare part, No. 7R05904, complete with stem and disk. Install new bellows by reversing procedure. After valve is reassembled it must be adjusted.

(4) To replace the complete steam control valve. Remove the small pressure tubing from rear of cover, then remove the valve from the steam line. Install the new valve by reversing this procedure.

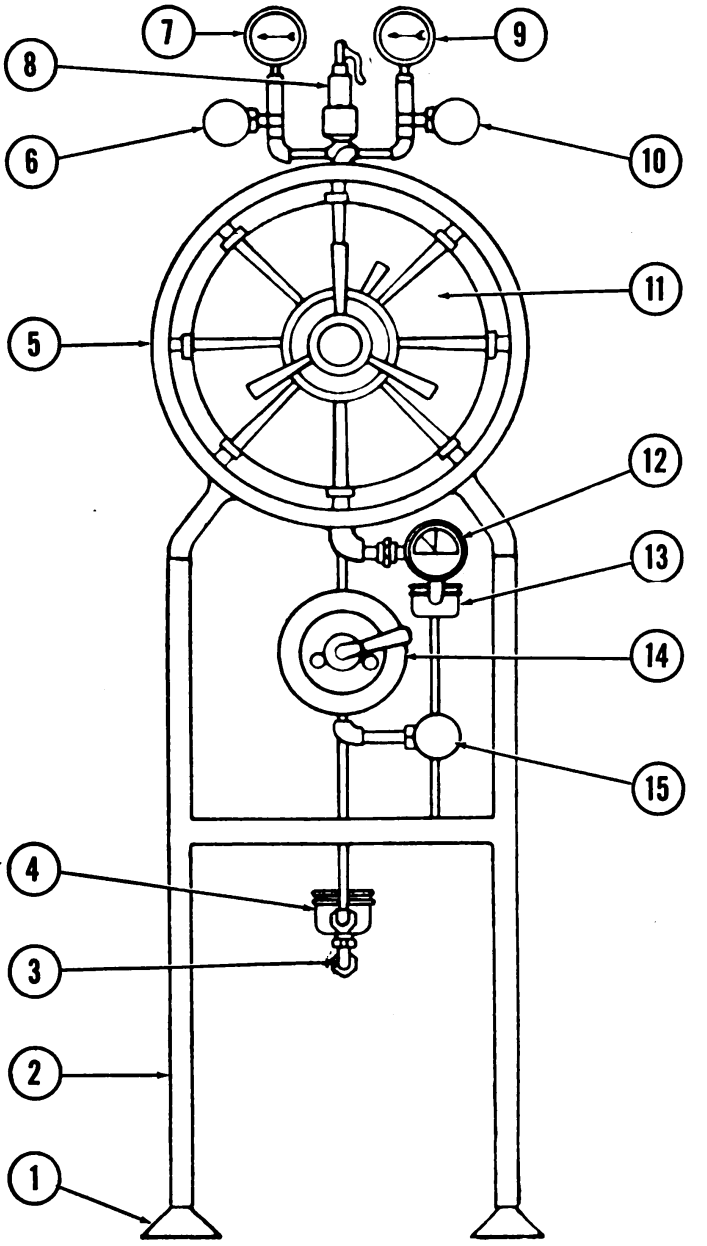
b. To replace glass on jacket and chamber gauges. Remove the knurled metal collar by turning counterclockwise. Remove any glass particles from the collar and the dial face. Caution must be taken not to touch the gauge pin. Put new glass in position, replace collar and tighten.

c. To adjust door. Loosen top and bottom bolts on the face of the hinge, leaving the center bolt tight, and with the door lightly held in the door collar. If the door has sagged, insert a board under the door and pry up slightly, then tighten the top and bottom bolts in place.

d. To clean thermometer glass and dial. Remove the screws on the sides of the metal glass collar and slip off the glass and the collar.

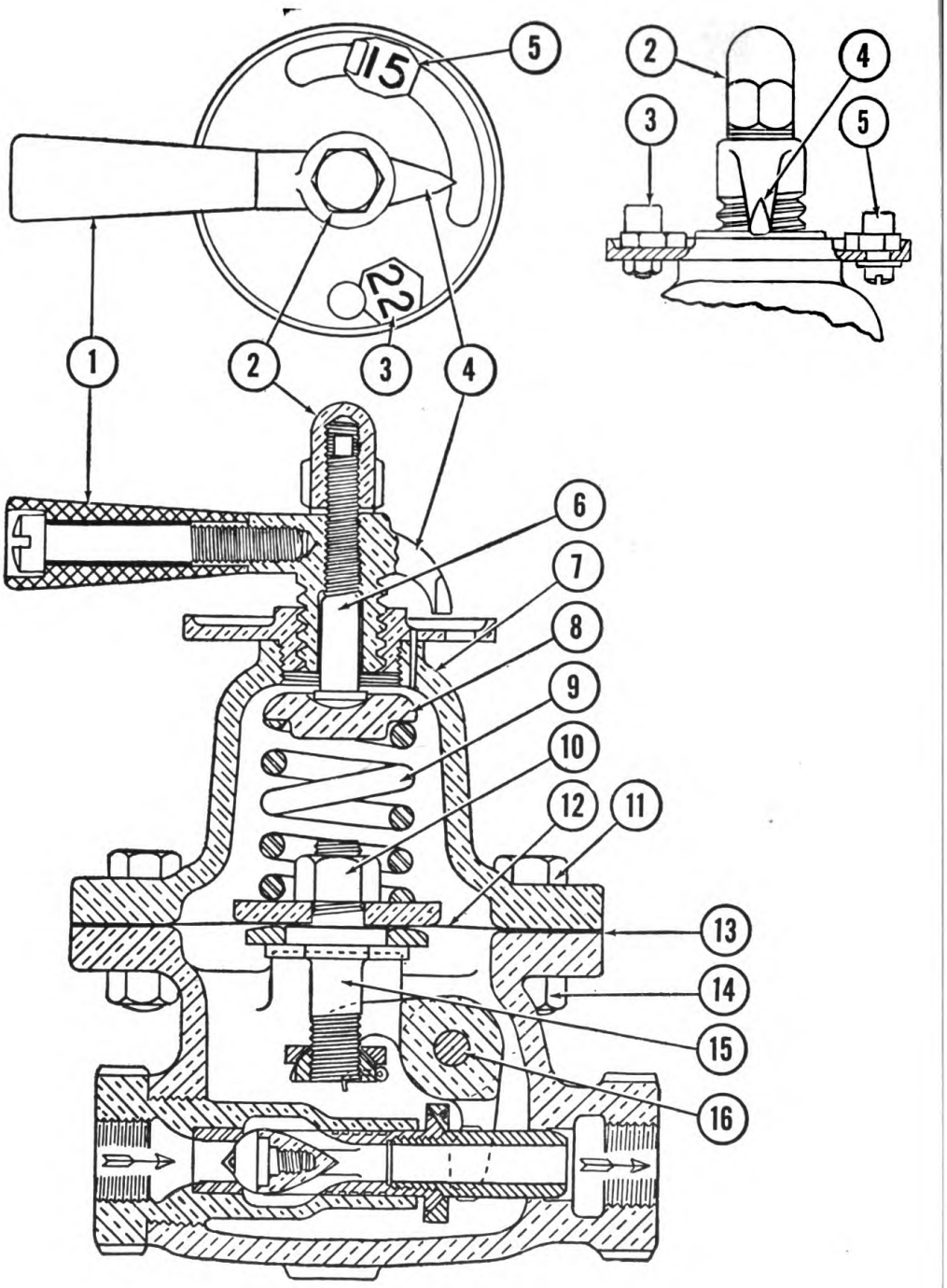
55. DRESSING STERILIZER, WILMOT CASTLE MODEL. a. Steam control valve, 7R06070 (fig. 21, part 14 and fig. 22).

(1) To adjust the steam control valve, open the steam supply valve and permit the sterilizer to become completely heated. Turn control handle, 7R06082 (fig. 22, part 1), until the pointer (fig. 22, part 4) contacts the 22 pound stop, 7R06086 (fig. 22, part 3). Allow sufficient time to elapse



Med. Dept. No.	Nomenclature
1. 7R06072	Flange, Leveling Floor.
2. 7R06074	Stand.
3. SR00521	Valve, Steam, Check, ⅜ Inch, Jenkins No. ABTVO, Complete: Assembly; for jacket return.
4. SR00499	Trap, Steam, ⅜ Inch, 60 Lbs., Webster No. 780–2, Complete: Assembly; for jacket return.
5. 7R06076	Shell, Outer.
6. SR00509	Valve, Steam, Jenkins No. ABTJK, ⅜ Inch, Complete: Assembly; jacket to chamber.
7. SR00497	Gauge, Steam, 2½ Inch, 30 Lb. Pressure, With $^{13}/_{32}$–27 x ⅜ Inch Stud: For jacket.
8. SR00505	Valve, Safety, ½ Inch, 25 Lbs.; Complete.
9. SR00496	Gauge, Steam, 2½ Inch, Compound 30 Lb. Pressure, 30 Inch Vacuum, With $^{13}/_{32}$–27 x ⅜ Inch Stud. For chamber.
10. SR00509	Valve, Steam, Jenkins No. ABTJK, ⅜ Inch, Complete. Assembly; for vent.
11. 7R06078	Door, Complete.
12. 7R06058	Thermometer.
13. SR00501	Trap, Steam, ½ Inch, 60 Lbs.; Webster No. 782–2, Complete. Assembly; for chamber return.
14. 7R06070	Valve, Steam Control, Complete.
15. SR00510	Valve, Steam, Jenkins No. ABTJL, ⅜ Inch, Complete. Assembly; for steam supply.

Figure 21. Dressing sterilizer, item No. 7910107, manufactured by Wilmot Castle Co.



Med. Dept. No.	Nomenclature
1. 7R06082	Handle, Steam Control Valve.
2. 7R06084	Cap, Nut, Steam Control Valve.
3. 7R06086	Stop, 22 Lbs., Steam Control Valve.
4.	Pointer.
5. 7R06088	Stop, 15 Lbs., Steam Control Valve.
6. 7R06090	Screw, Adjusting, Steam Control Valve.
7. 7R06092	Chamber, Spring, Steam Control Valve.
8. 7R06094	Seat, Spring, Steam Control Valve.
9. 7R06096	Spring, Pressure Coil, Steam Control Valve.
10. SR00584	Nut, 3/8 x 24, Hex.
11. SR00585	Bolt, 3/8–24 x 1 3/8 Inch, Hex H.M.
12. 7R06054	Diaphragm, Steam Control Valve.
13. 7R06056	Washer, Diaphragm.
14. SR00584	Nut, 3/8 x 24, Hex.
15. 7R06098	Stud, Pusher, Steam Control Valve.
16. 7R06100	Arm, Rocker, Steam Control Valve.

Figure 22. Steam control valve, part No. 7R06070, for dressing sterilizer, Wilmot Castle Model.

for jacket pressure to reach a stationary maximum. If jacket pressure gauge indicates more than 22 pounds, remove the cap nut, 7R06084 (fig. 22, part 2), on the hub of the control handle, by turning counterclockwise. This will expose a slotted adjustment screw, 7R06090 (fig. 22, part 6). Slowly turn the slotted adjustment screw counterclockwise until the jacket pressure gauge indicates and maintains a pressure of 22 pounds. The adjustment can be hastened by partially exhausting sterilizer and allowing pressure to build up again while turning adjusting screw. When pressure of 22 pounds is maintained, replace the cap nut and tighten by turning clockwise. If jacket pressure gauge indicates less than 22 pounds, follow the same procedure turning the slotted adjusting screw clockwise. Adjust the control for 15 pounds pressure by loosening the 15 pound stop, 7R06088 (fig. 22, part 5), on control dial. Partially exhaust sterilizer, turn control handle counterclockiwse, then very slowly turn handle clockwise until the jacket pressure gauge indicates and maintains 15 pounds pressure. Slide the 15 pound stop against the control handle pointer and fasten the stop in that position. The 15 pound stop then forms a limiter for the control handle when turned counterclockwise.

(2) To replace diaphragm, 7R06054 (fig. 22, part 12), remove all rim bolts, SR00585 (fig. 22, part 11), and rim nuts, SR00584 (fig. 22, part 14). Remove spring chamber, 7R06092 (fig. 22, part 7), and the pressure coil spring, 7R06096 (fig. 22, part 9). Note the position of the top spring seat, 7R06094 (fig. 22, part 8), and replace in same position when reassembling valve. To free the diaphragms from the valve housing, move them toward the inlet side of the valve. This will disengage pusher stud, 7R06098 (fig. 22, part 15), from the rocker arm, 7R06100 (fig. 22, part 16), in the valve body. The diaphragms can then be lifted away from the valve housing. Remove diaphragms from the pusher stud by turning pusher stud nut, SR00584 (fig. 22, part 10), counterclockwise. Inspect the diaphragms and replace those which are defective. It is essential that the same number of diaphragms be replaced as are in the valve before disassembling. The number of diaphragms used is determined by factory test and cannot be varied. Install new diaphragms and new diaphragm washers, 7R06056 (fig. 22, part 13). Reassemble valve by reversing procedure. Take caution that the pusher rod is hooked under the rocker arm in the valve body. If the diaphragms cannot be lifted from the valve housing when they are in the proper position, the pusher rod is correctly placed under the rocker arm.

(3) To replace the complete control valve be certain that the arrows cast on the valve housing body point in the direction of the steam flow.

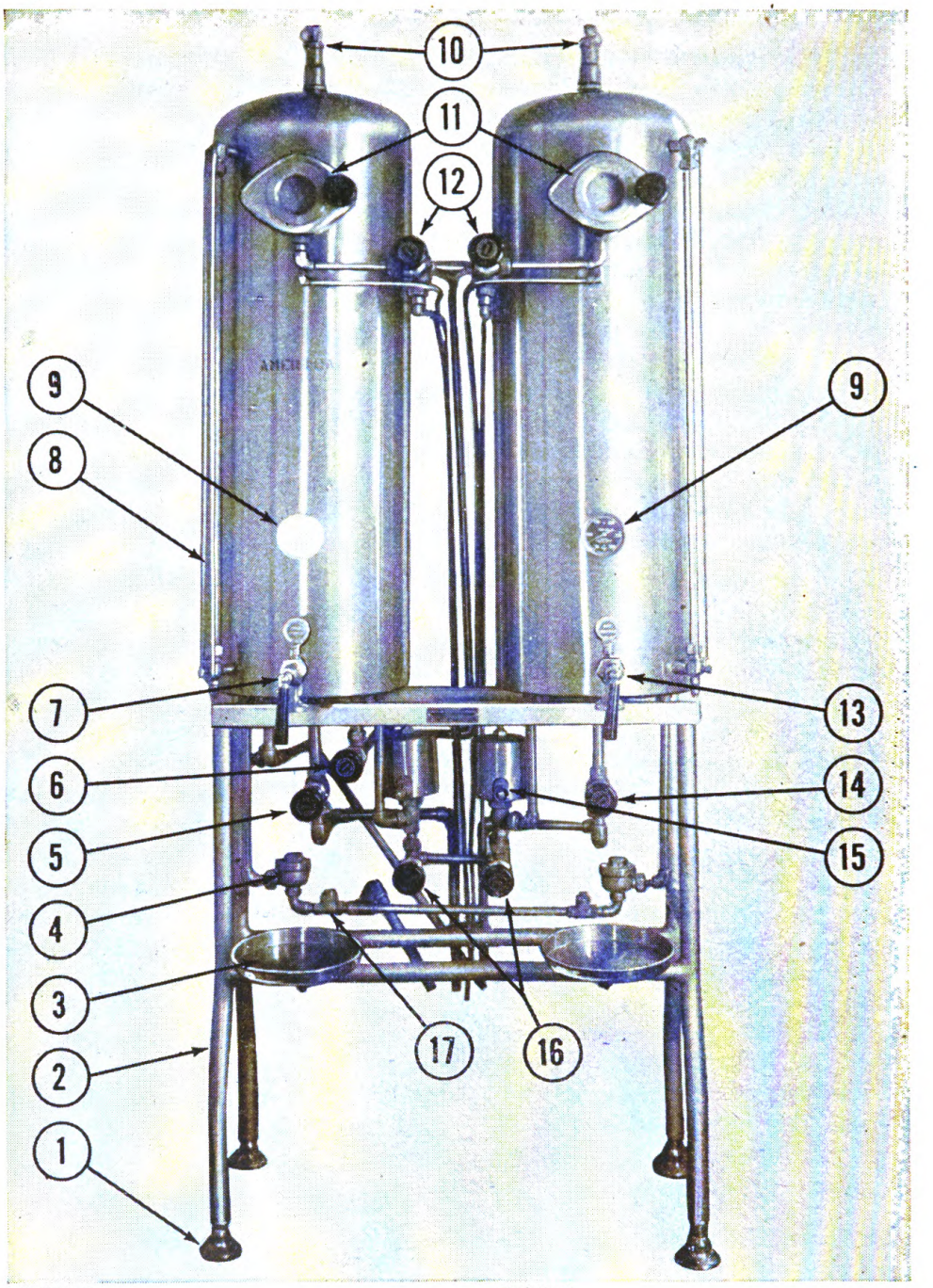
b. To adjust door. Loosen the setscrew in each of the adjustment bearings. Insert a nail or pointed tool into the holes of the adjustment bearings and rotate until door is raised or lowered as necessary.

c. To replace glass on chamber and jacket gauges. Remove the knurled metal collar by turning counterclockwise. Remove any glass particles from the collar and the gauge housing. Caution must be taken not to touch the gauge pin. Place new glass in position, replace collar and tighten.

56. WATER STERILIZER, AMERICAN MODEL. a. Steam control valve, 7R06534 (fig. 23, part 15 and fig. 15).

(1) To adjust tank pressure, turn the adjusting nut, 7R06544 (fig. 15, part 1), clockwise to increase and counterclockwise to decrease pressure.

(2) To replace diaphragm, 7R05754 (fig. 15, part 6), remove the pressure tubing, tank to top of control cover, by turning coupling nut counter-



Med. Dept. No.	Nomenclature
1. 7R05772	Flange, Leveling Floor.
2. 7R06538	Stand.
3. 7R06540	Pan, Drip.
4. SR00499	Trap, Steam, ⅜ Inch, 60 Lbs., Webster No. 780–2, Complete.
5. SR00517	Valve, Water, Jenkins No. ABTJI, ½ Inch, Complete. Assembly; for water waste.
6. SR00515	Valve, Water, Jenkins No. ABTJK, ⅜ Inch, Complete. Assembly; for water cooling.
7. 7R06528	Valve, Draw Off, Cold, Complete.
8. 7R06506	Glass, Gage.
9. 7R06512	Thermometer.
10. SR00505	Valve, Safety, ½ Inch, 25 Lbs., Complete.
11. 7R06536	Filter, Water, Complete.
12. 7R06532	Valve, Water Supply, 2-Way, Complete.
13. 7R06530	Valve, Draw Off, Hot, Complete.
14. SR00517	Valve, Water, Jenkins No. ABTJI, ½ Inch, Complete. Assembly; for water waste.
15. 7R06534	Valve, Steam Control, Complete.
16. SR00508	Valve, Steam, Jenkins No. ABTJI, ⅜ Inch, Complete. Assembly; for supply.
17. SR00521	Valve, Steam, Check, ⅜ Inch, Jenkins No. ABTVO, Complete.

Figure 23. Water sterilizer, item No. 7910240, manufactured by American Sterilizer Co.

clockwise. Remove four screws which fasten the cover, 7R05790 (fig. 15, part 7), to control frame and remove cover. Remove diaphragm from cover by turning coupling nut, 7R05788 (fig. 15, part 5), counterclockwise. When disassembling control, note the position of the pressure coil spring, 7R05792 (fig. 15, part 8), and be certain to replace it in the same position. Insert new diaphragm in cover and reassemble by reversing procedure.

(3) To replace complete steam control valve, remove pressure tubing from top of control cover by turning coupling nut counterclockwise. Then remove the complete valve from the steam line. Install new unit by reversing procedure.

b. Water filter, 7R06536 (fig. 23, part 11 and fig. 24). (1) To replace the filter disc, 7R06514 (fig. 24, part 8), open the filter door, 7R06546 (fig. 24, part 1), by turning the knob, 7R06526 (fig. 24, part 3), counterclockwise. Remove filter disc by pulling outward on the two knurled pins, (fig. 24, part 5), at top of filter disk. This disk will require replacement approximately every 4 months. Do not replace the monel metal filter element, 7R06550 (fig. 24, part 9), which is fastened to housing behind the cloth filter disc. Note the receptacle (fig. 24, part 4) on the inner side of the door glass frame, 7R06548 (fig. 24, part 2), for the filter disc pins. Door glass frame must be turned so the pins will fit into the receptacles before door can be closed.

(2) To replace filter door glass, 7R06522 (fig. 24, part 10), turn door glass frame counterclockwise. To turn door glass frame, the door must be closed and securely fastened by the knob on right side of door. Place a screw driver in either the two notches (fig. 24, part 12) and gently tap screw driver until frame turns. Note gaskets, 7R06520 (fig. 24, part 6) and 7R06518 (fig. 24, part 7), on both sides of the glass. Clean any glass particles from door glass frame. Replace gaskets and install new glass by reversing procedure.

c. To install water level glass gauge, 7R06506 (fig. 23, part 8). Remove guard rods by lifting upward out of holders. Remove lower glass gauge coupling by turning counterclockwise. Remove upper coupling by turning counterclockwise (viewed from the bottom). Place the coupling nuts and the washers on the new glass gauge in their respective positions for fastening to the glass gauge holders. Insert glass gauge as far as possible into the upper holder. Place lower end of glass gauge into lower holder. Slide washers and coupling nuts into place and fasten to glass gauge holders. New glass gauge must be thoroughly sterilized after installation by following procedure given in the operation section of this manual. Be certain to check the position of all glass gauge petcocks before putting sterilizer into operation.

57. WATER STERILIZER, HOSPITAL SUPPLY MODEL. a. Steam control valve, 7R06374 (fig. 25, part 13 and fig. 26).

(1) To adjust, remove the cap, 7R06392 (fig. 26, part 2), on front of valve by turning counterclockwise. Loosen lock nut, SR00526 (fig. 26, part 4), by turning counterclockwise. To increase tank pressure turn adjusting screw, 7R06394 (fig. 26, part 3), clockwise one turn and allow sufficient time for reaction on the control valve mechanism. Repeat process until proper pressure is obtained. To decrease tank pressure turn adjusting screw counterclockwise following the same procedure explained for increasing tank pressure.

Med. Dept. No.	Nomenclature
1. 7R06546	Door, Filter.
2. 7R06548	Frame, Glass, Filter Door.
3. 7R06526	Knob.
4.	Receptacle for Filter Disk Pins.
5.	Knurled Pins on Filter Disk.
6. 7R06520	Gasket, Outer, Filter Glass.
7. 7R06518	Gasket, Inner, Filter Glass.
8. 7R06514	Disc, Filtrene, 48 in Box.
9. 7R06550	Element, Filter, Monel Metal.
10. 7R06522	Glass, Filter Door.
11. 7R06516	Gasket, Filter Door.
12.	Door Glass Frame Notch.

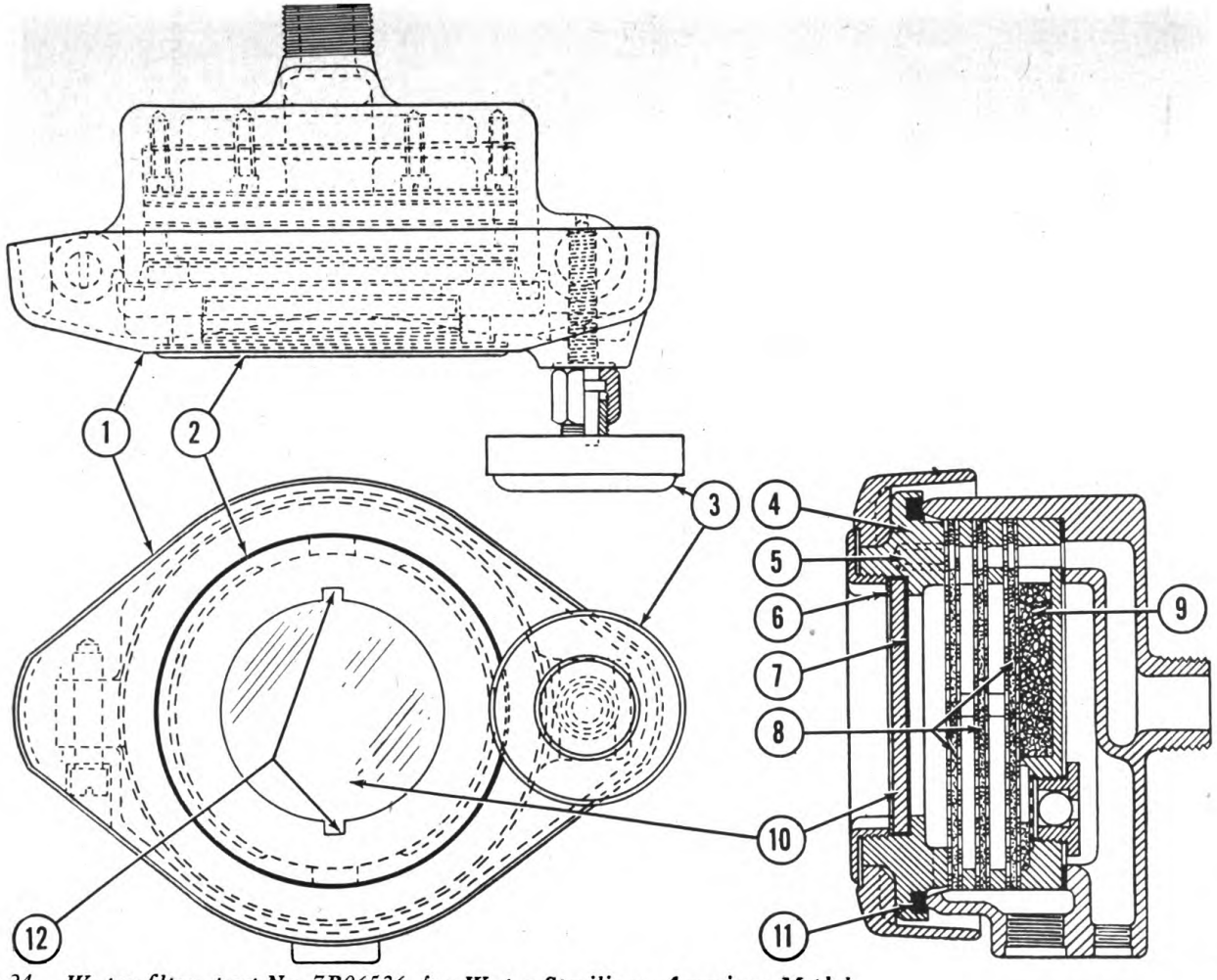
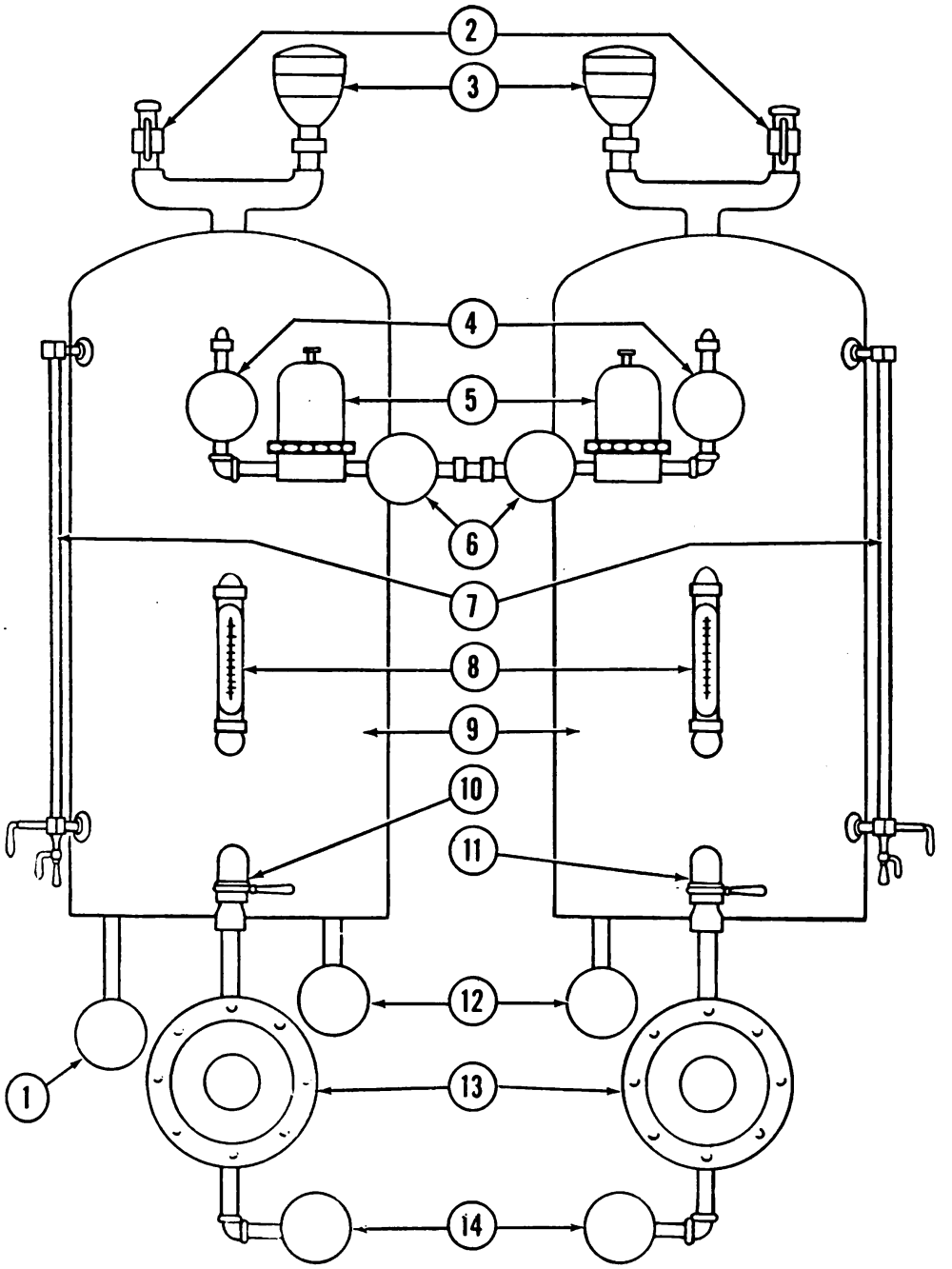


Figure 24. Water filter, part No. 7R06536, for Water Sterilizer, American Model.



Med. Dept. No.	Nomenclature
1. SR00517	Valve, Water, Jenkins No. ABTJI, ½ Inch, Complete. Assembly; for water cooling.
2. SR00505	Valve, Safety, ½ Inch, 25 Lbs.; Complete.
3. 7R06388	Filter, Air, Complete.
4. SR00518	Valve, Water, Jenkins No. ABTJK, ½ Inch, Complete: Assembly; for filter to tank.
5. 7R06372	Filter, Water, Complete.
6. 7R06376	Valve, Water Supply, With Bleeder, Complete.
7. 7R06356	Gauge, Glass.
8. 7R06364	Thermometer.
9. 7R06390	Tank, 25 Gallon.
10. 7R06378	Valve, Draw Off, Cold; Complete.
11. 7R06380	Valve, Draw Off, Hot, Complete.
12. SR00518	Valve, Water, Jenkins No. ABTJK, ½ Inch, Complete. Assembly; for waste.
13. 7R06374	Valve, Steam Control, Complete.
14. SR00512	Valve, Steam, Jenkins No. ABTJI, ½ Inch, Complete. Assembly; for supply.

Figure 25. Water sterilizer, item No. 7910240, manufactured by Hospital Supply Co.

(2) To replace diaphragm, 7R05604 (fig. 26, part 7), remove all rim nuts SR00422 (fig. 26, part 9), and rim bolts, SR00379 (fig. 26, part 8). Remove spring chamber, 7R06396 (fig. 26, part 5), which will expose diaphragm plate, 7R06398 (fig. 26, part 6), and diaphragm. Remove rear plug, 7R06404 (fig. 26, part 13), by turning counterclockwise (viewed from the rear). Hold the valve stem, 7R06400 (fig. 26, part 11), stationary, from rear of valve, and remove diaphragm plate by turning counterclockwise. Diaphragm washer, 7R05606 (fig. 26, part 10), should be replaced each time the valve is disassembled. Put new diaphragm in place and reassemble valve by reversing procedure.

(3) To replace valve disc, 7R06402 (fig. 26, part 12), remove only the rear plug by turning counterclockwise (viewed from the rear). Turn the valve stem counterclockwise (viewed from rear) until free of diaphragm plate. Slip valve stem through rear of valve housing. Remove old valve disk from the receptacle and replace with new disk.

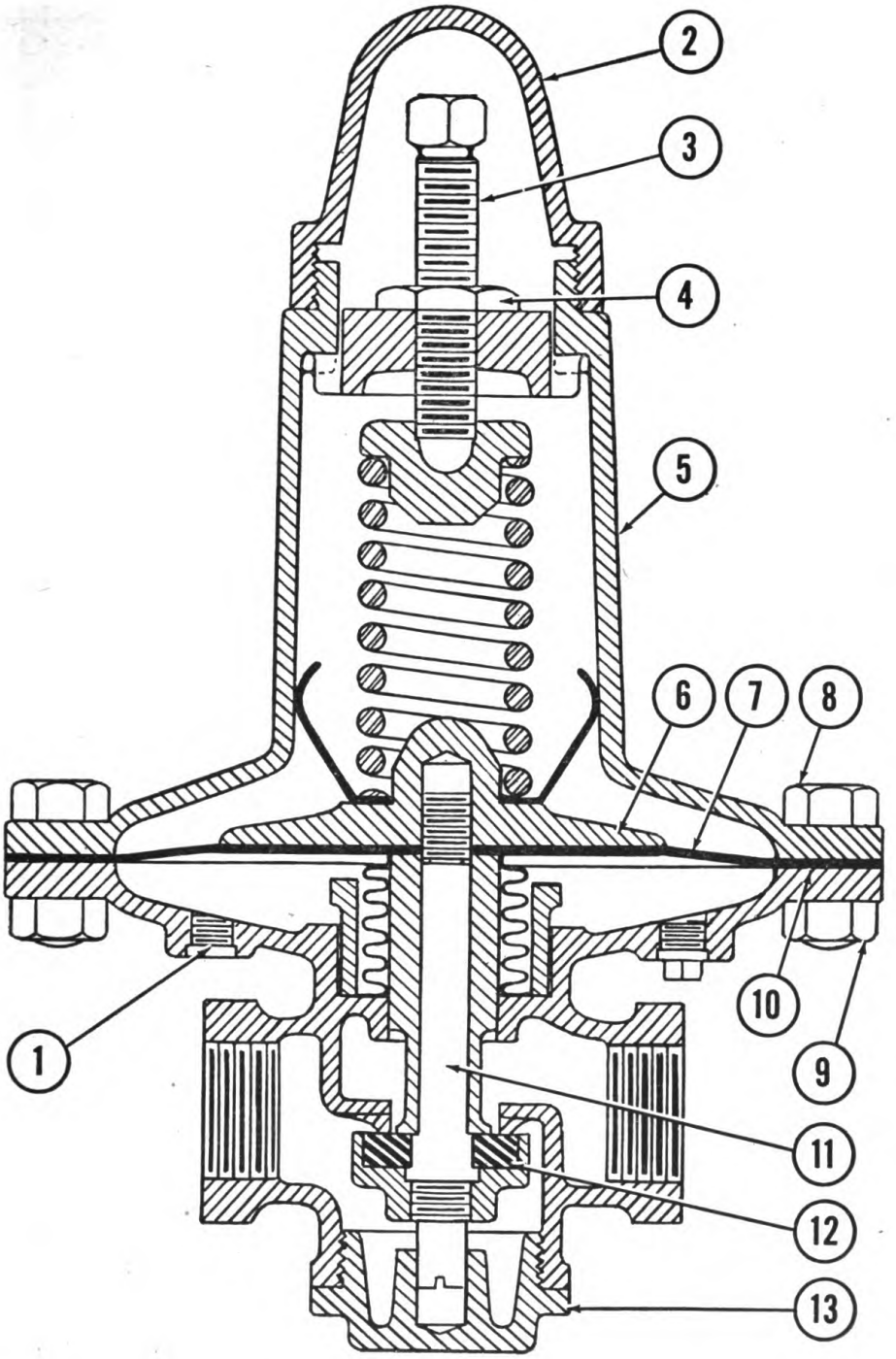
(4) To replace complete steam control valve, disconnect the small pressure tubing (from underside of tank to rear of diaphragm housing) at coupling (fig. 26, part 1) by turning coupling nut counterclockwise (viewed from rear). Then remove valve proper from incoming steam line by turning counterclockwise on line. Install new valve by reversing procedure for removal.

b. Draw off valves. (1) To adjust, loosen setscrew on handle collar by turning counterclockwise. Position handle collar on lower movable part of valve proper to obtain complete shut-off with maximum flow. Tighten setscrew on valve handle collar.

(2) To replace valve disk, loosen setscrew on valve handle collar by turning counterclockwise. Remove lower movable part of valve housing by turning clockwise (viewed from top). Lift valve disk holder from valve housing. Remove disk lock screw from disk holder by turning counterclockwise and remove disk from holder. Replace with new disk and reassemble valve by reversing procedure.

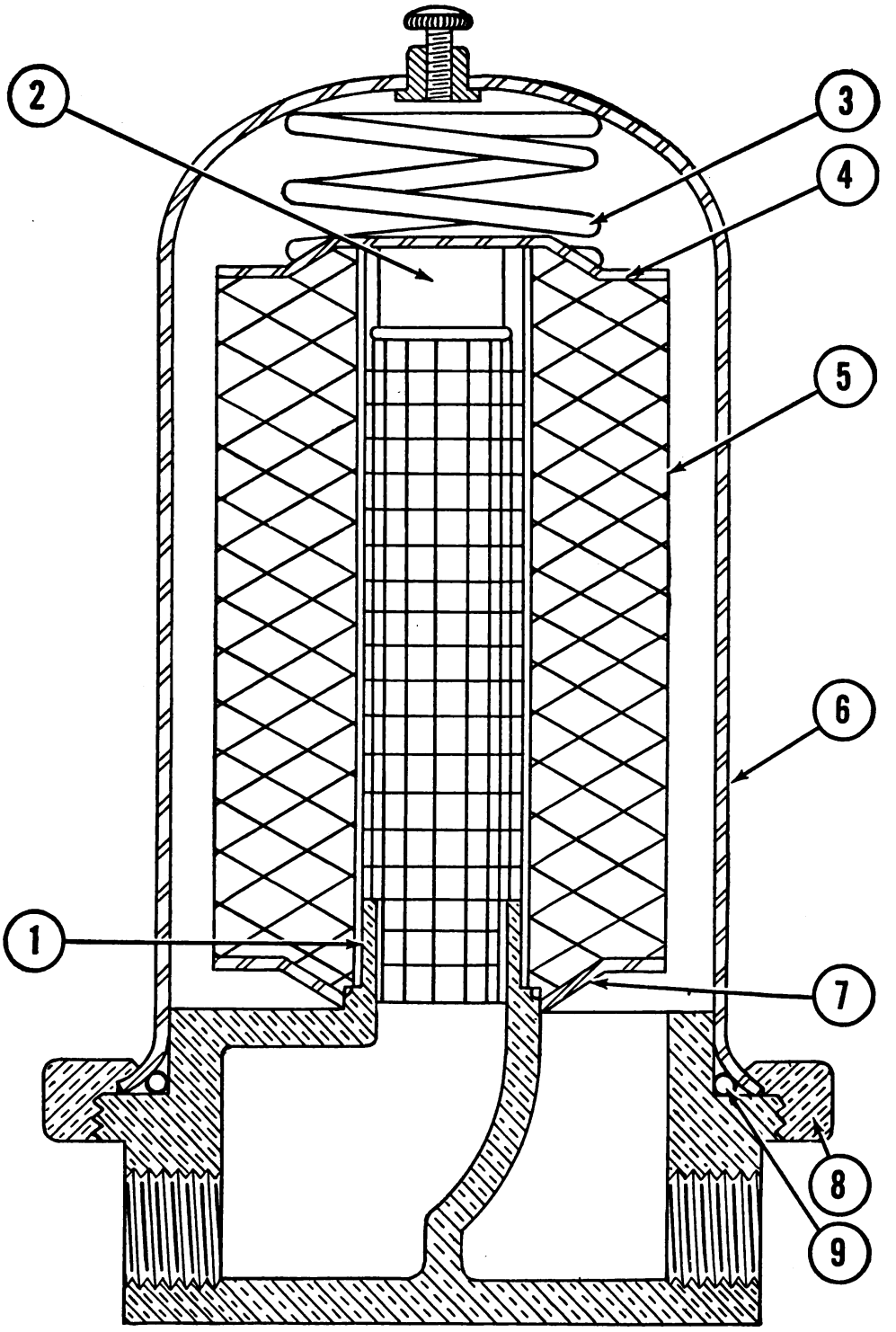
c. To replace water filter element, SR00487 (fig. 27, part 5). Remove the water filter cylinder, 7R06384 (fig. 27, part 6), by turning lock ring, 7R06412 (fig. 27, part 8), counterclockwise. Lift element top seat, 7R06408 (fig. 27, part 4), and pressure coil spring, 7R06406 (fig. 27, part 3), from filter element. Lift element from bottom seat, 7R06410 (fig. 27, part 7). Place new gasket, 7R06368 (fig. 27, part 9), on base. Place new element on bottom seat, making certain that the element is over bottom centering post, (fig. 27, part 1), to form a tight seal. Place element top seat on element making certain that top centering post, (fig. 27, part 2), is inside the core of element to form a tight seal. Put cylinder in place and tighten lock ring by turning clockwise (viewed from top).

d. To replace water level glass gauge, 7R06356 (fig. 25, part 7). Remove the guard rods by lifting upward out of holders. Remove the lower glass gauge coupling nut by turning counterclockwise. Remove the upper coupling nut by turning counterclockwise (viewed from the bottom) and remove gauge. Place coupling nuts and washers on the new glass gauge in their respective positions for fastening to the glass gauge holders. Insert glass gauge as far as possible into the upper glass gauge holder. Place lower end of glass gauge into the lower glass gauge holder. Slide the washers and coupling nuts into place and fasten to the glass gauge holders. Be certain



Med. Dept. No.	Nomenclature	Med. Dept. No.	Nomenclature
1.	Pressure Tube Inlet.	8. SR00379	Bolt, 5/16–18 x 1 Inch, Hex H.M.: For steam control valve rim.
2. 7R06392	Cap, Steam Control Valve.	9. SR00422	Nut, 5/16 x 18, Hex: For steam control valve rim.
3. 7R06394	Screw, Adjusting, Steam Control Valve.	10. 7R05606	Washer, Diaphragm.
4. SR00526	Nut, 3/8 x 16, Hex. For locking steam control valve.	11. 7R06400	Stem, Steam Control Valve.
5. 7R06396	Chamber, Spring, Steam Control Valve.	12. 7R06402	Disc, Steam Control Valve.
6. 7R06398	Plate, Diaphragm, Steam Control Valve.	13. 7R06404	Plug, Rear, Steam Control Valve.
7. 7R05604	Diaphragm, Steam Control Valve.		

Figure 26. Steam control valve, part No. 7R06374, for water sterilizer, Hospital Supply Model.



Med. Dept. No.	Nomenclature	Med. Dept. No.	Nomenclature
1.	Bottom Centering Post.	6. 7R06384	Cylinder, Water Filter.
2.	Top Centering Post.	7. 7R06410	Seat, Bottom, Element, Water Filter.
3. 7R06406	Spring, Pressure Coil, Water Filter.	8. 7R06412	Ring, Lock, Water Filter.
4. 7R06408	Seat, Top, Element, Water Filter.	9. 7R06368	Gasket, Filter, Cylinder.
5. SR00487	Element, Filtering, Fulflo.		

Figure 27. Water filter, part No. 7R06372, for water sterilizer, Hospital Supply Model.

to check the position of all glass gauge petcocks before putting sterilizer into operation.

58. WATER STERILIZER, SCANLAN-MORRIS MODEL. a. Steam control valve, 7R06682 (fig. 28, part 17 and fig. 29).

(1) To adjust, turn the adjusting nut, 7R06700 (fig. 29, part 8), counterclockwise (viewed from front) to decrease pressure or temperature. Turn clockwise to increase. Make this adjustment with steam supply valve fully open.

(2) To replace the diaphragm, 7R06692 (fig. 29, part 4), remove the small pressure tubing from tank to rear of control cover by turning coupling nut counterclockwise (viewed from rear). Remove four screws, SR00111 (fig. 29, part 1), which fasten cover to yoke and remove cover. Note the position of the pressure coil spring, 7R06696 (fig. 29, part 6), and the diaphragm seat, 7R06694 (fig. 29, part 5), as the cover is removed so that they will be replaced in same position. Remove diaphragm from the interior of the cover by turning rear coupling nut, 7R06690 (fig. 29, part 3), counterclockwise. Install new diaphragm and reassemble control by reversing procedure.

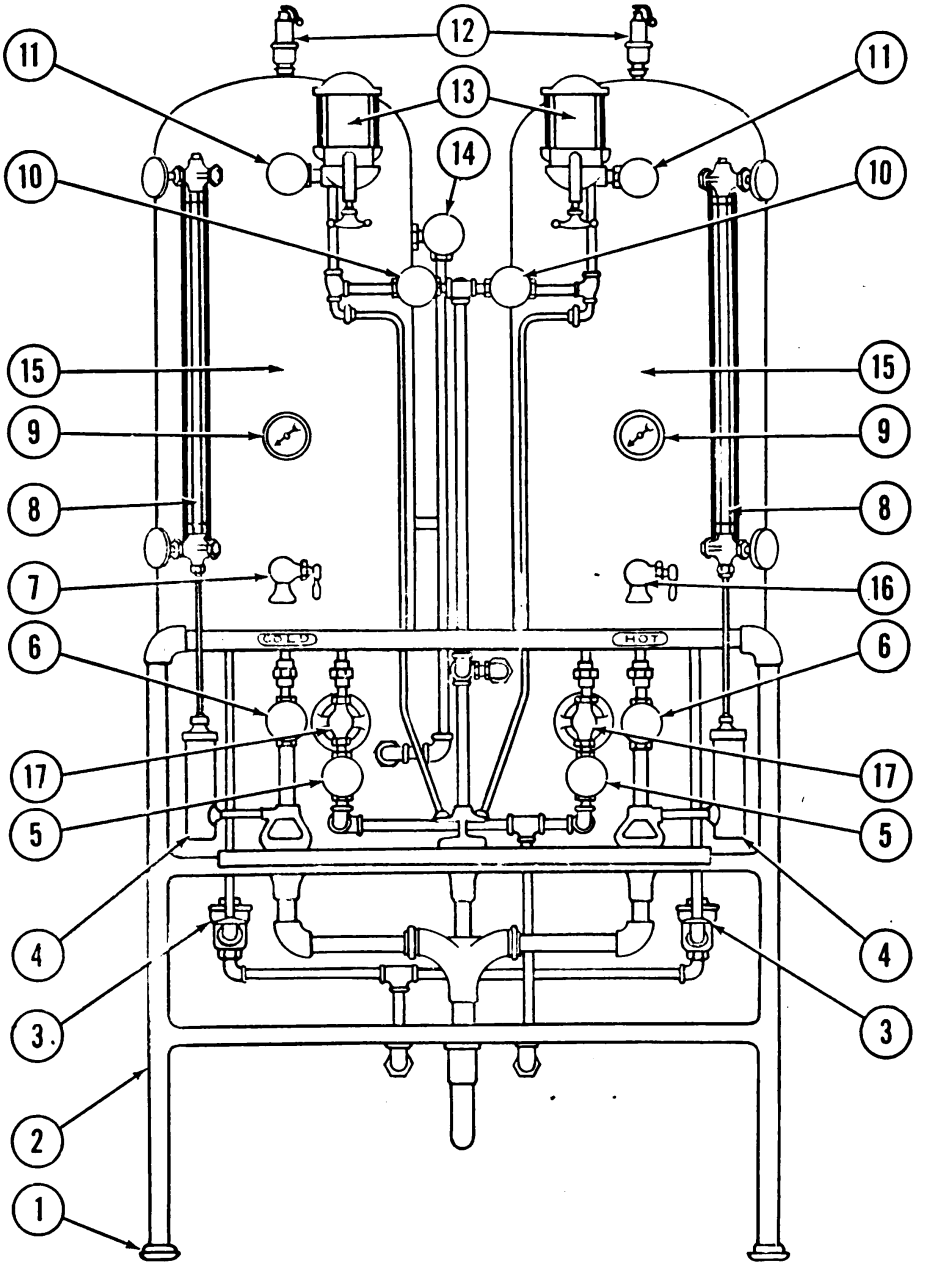
(3) To replace the bellows, 7R05904 (fig. 29, part 11), first loosen lock nut. Loosen seat screw in adjusting nut. Turn valve bonnet, 7R06704 (fig. 29, part 10), counterclockwise until free of valve body. Pull valve cover and yoke away from valve body until bellows is clear of valve body. Be careful not to damage the small pressure tubing. Turn valve stem counterclockwise until free of diaphragm. Turn lock nut counterclockwise to remove from valve stem. Remove adjusting nut from valve stem. Slip valve bonnet off valve stem. The bellows is supplied as a spare part No. 7R05904, complete with valve stem and disk. Install new bellows by reversing procedure. After valve is reassembled it must be adjusted.

(4) To replace complete steam control valve, remove the small pressure tubing by turning coupling nut at rear of control cover counterclockwise (viewed from the rear). Then remove valve from steam supply line. Install new control valve by reversing procedure.

b. Sterilizer for water level glass gauge. (1) General. This unit consists of the small metal tubing, 7R06708 (fig. 30, part 1), within the glass gauge, 7R06656 (fig. 28, part 8), the connecting tube, 7R06716 (fig. 30, part 5), from the bottom of the lower glass gauge holder, 7R06710 (fig. 30, part 2), to the vertical cylinder, 7R06720 (fig. 30, part 7), below each water tank. The cylinder has the same action as the steam trap on sterilizer return lines.

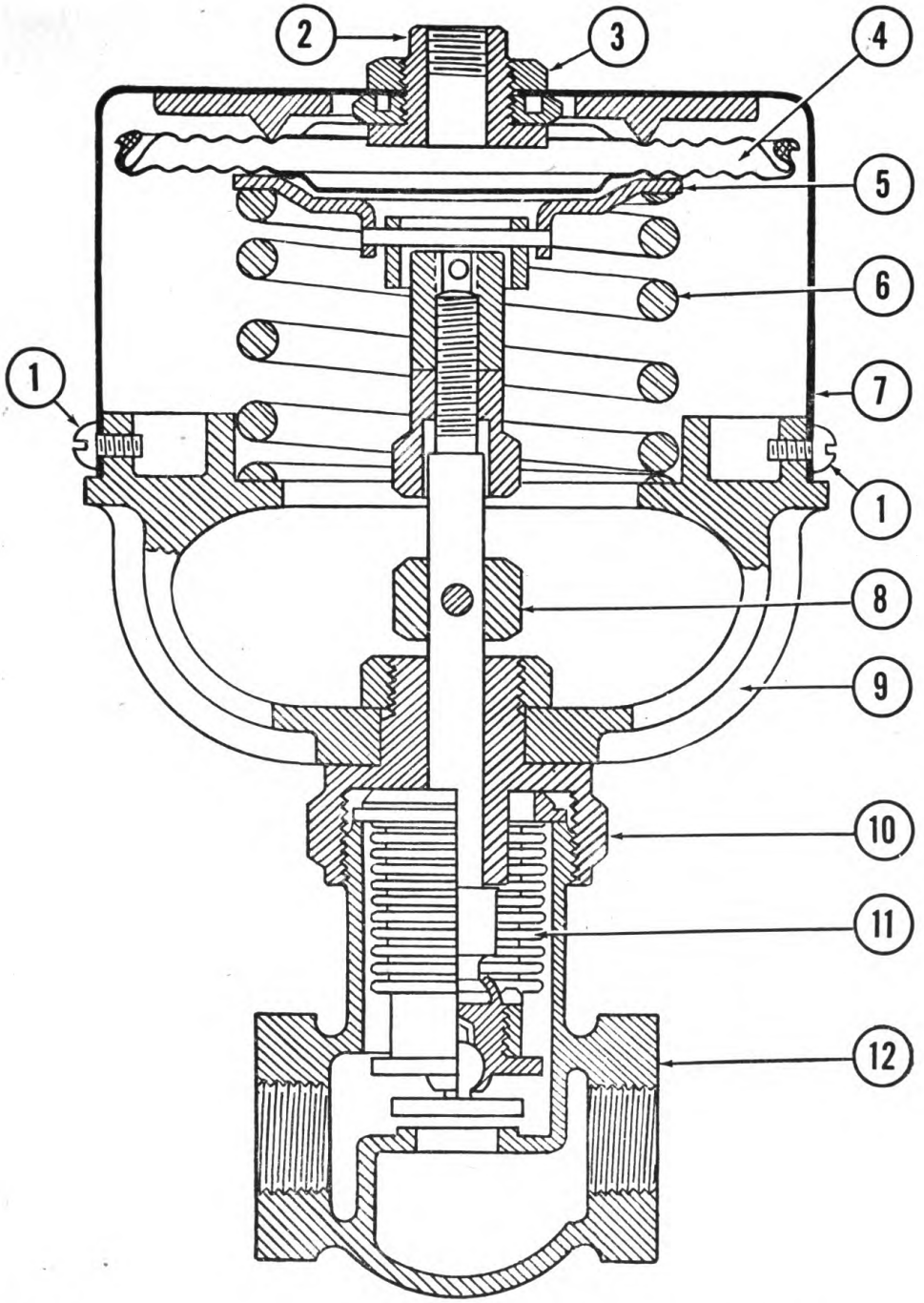
(2) Indications of glass gauge sterilizer failure are: Glass gauge fails to become hot, approximate temperature of water in tanks during sterilization period, or constant ejection of steam from the lower outlet of the vertical cylinder below each tank.

(3) To clean glass gauge sterilizer, remove small metal tubing from inside of glass gauge by turning bottom coupling nut, 7R06714 (fig. 30, part 4), clockwise (viewed from top). This will disconnect the inner tubing from the outer tubing at bottom glass gauge holder. Then turn bottom coupling stud, 7R06712 (fig. 30, part 3), extending from underside of lower glass gauge holder, clockwise (viewed from the top). Slide inner metal tubing from glass gauge through lower glass gauge holder. Clean by running a small



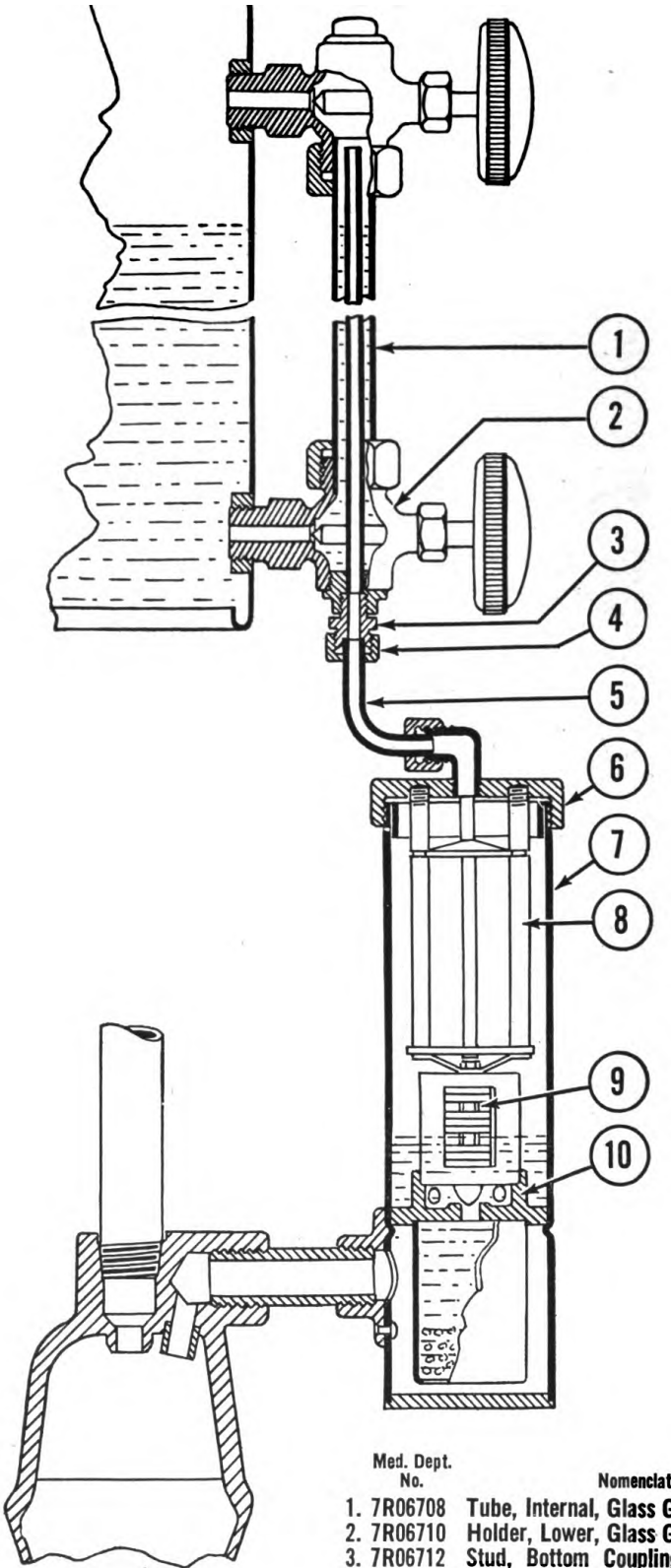
Med. Dept. No.	Nomenclature
1. 7R05926	Flange, Leveling Floor.
2. 7R06684	Stand.
3. SR00501	Trap, Steam, ½ Inch, 60 Lbs., Webster No. 782–2, Complete.
4. 7R06676	Sterilizer, Glass Gage, Complete.
5. SR00511	Valve, Steam, Jenkins No. ABTJA, ½ Inch, Complete. Assembly; for steam supply.
6. SR00516	Valve, Water, Jenkins No. ABTJA, ½ Inch, Complete. Assembly; for water waste.
7. 7R06678	Valve, Draw Off, Cold, Complete.
8. 7R06656	Gage, Glass.
9. 7R06662	Thermometer.
10. SR00513	Valve, Water, Jenkins No. ABTJA, ⅜ Inch, Complete. Assembly; for water supply.
11. SR00514	Valve, Water, Jenkins No. ABTJI, ⅜ Inch, Complete. Assembly; from filter to tank.
12. SR00506	Valve, Safety, ¾ Inch, 22 Lbs., Complete.
13. 7R06674	Filter, Water, Complete.
14. SR00517	Valve, Water, Jenkins No. ABTJI, ½ Inch, Complete. Assembly; for water cooling.
15. 7R06686	Tank, 25 Gallon.
16. 7R06680	Valve, Draw Off, Hot, Complete.
17. 7R06682	Valve, Steam Control, Complete.

Figure 28. Water sterilizer, item No. 7910240, manufactured by Scanlan-Morris Co.



Med. Dept. No.	Nomenclature	Med. Dept. No.	Nomenclature
1. SR00111	Screw, 8–32 x ¼ Inch, R.H.M.: For steam control valve cover.	6. 7R06696	Spring, Pressure Coil, Steam Control Valve.
2. 7R06688	Stud, Rear Coupling, Steam Control Valve.	7. 7R06698	Cover, Steam Control Valve.
3. 7R06690	Nut, Rear Coupling, Steam Control Valve.	8. 7R06700	Nut, Adjusting, Steam Control Valve.
4. 7R06692	Diaphragm, Steam Control Valve.	9. 7R06702	Yoke, Steam Control Valve.
5. 7R06694	Seat, Diaphragm, Steam Control Valve.	10. 7R06704	Bonnet, Steam Control Valve.
		11. 7R05904	Bellows, Steam Control Valve.
		12. 7R06706	Body, Steam Control Valve.

Figure 29. Steam control valve, part No. 7R06682, for water sterilizer, Scanlan-Morris Model.



Med. Dept. No.		Nomenclature
1.	7R06708	Tube, Internal, Glass Gauge.
2.	7R06710	Holder, Lower, Glass Gauge.
3.	7R06712	Stud, Bottom Coupling, Lower Glass Gauge Holder.
4.	7R06714	Nut, Bottom Coupling, Lower Glass Gauge Holder.
5.	7R06716	Tube, Connecting, Glass Gauge Sterilizer.
6.	7R06718	Cap, Knurled Top, Glass Gauge, Sterilizer Cylinder.
7.	7R06720	Cylinder, Glass Gauge Sterilizer.
8.	7R06722	Spacer, Element, Glass Gauge Sterilizer.
9.	7R06670	Element, Trap, McGath Sterilguard.
10.		Base and Seat.

Figure 30. Glass gauge sterilizer, part No. 7R06676, for water sterilizer, Scanlan-Morris Model.

wire through length of tube. Disconnect tube from top of vertical cylinder by turning coupling nut counterclockwise. Clean by running small wire through this length of tubing. To clean the interior of the vertical cylinder, or steam trap, turn the top knurled cap, 7R06718 (fig. 30, part 6), counterclockwise and remove. Remove trap element, 7R06670 (fig. 30, part 9), by lifting out of cylinder. Clean point of valve and seat. When reassembling unit, be certain that the trap element is centered in the base and seat (fig. 30, part 10) of cylinder before replacing knurled top cap.

(4) To replace element, follow the same procedure as for cleaning of the cylinder interior.

c. Water filters, 7R06674 (fig. 28, part 13 and fig. 31).

(1) To replace filter element, SR00487 (fig. 31, part 5), unscrew yoke handle, 7R06724 (fig. 31, part 1). Swing yoke, 7R06726 (fig. 31, part 2), clear of filter base, 7R06728 (fig. 31, part 3), and lift filter glass, 7R06666 (fig. 31, part 4), and cap, 7R06730 (fig. 31, part 6), from the base of filter. Note position of pressure coil spring, 7R06732 (fig. 31, part 7), at top of filter element. Remove old element and insert new. Check condition of gasket, 7R06668 (fig. 31, part 9), and replace if necessary. Clean inside of glass cylinder and gasket. Reassemble by reversing procedure.

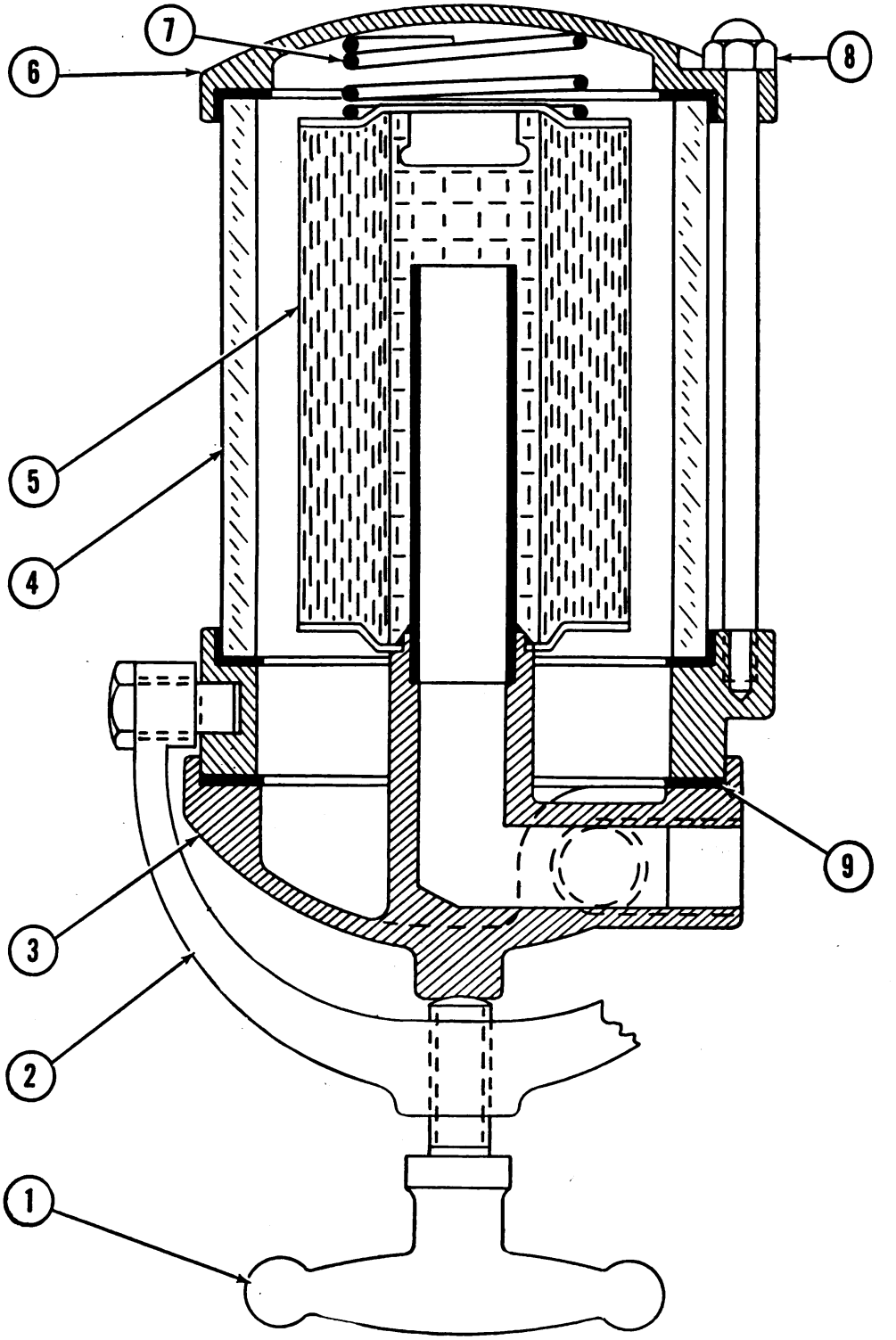
(2) To replace damaged filter cylinder glass, remove cylinder as for cleaning. Remove the four cap nuts, 7R06734 (fig. 31, part 8), at corners of filter cylinder cap by turning counterclockwise (viewed from top). Remove filter cap. Remove damaged glass cylinder. Place new gasket in base of filter, install new cylinder glass and also a new upper gasket. Reassemble by reversing procedure for disassembly.

d. To replace water level glass gauge. Remove the small metal tubing, leading from bottom of lower glass gauge holder, by turning coupling nut clockwise (viewed from the top). Remove small metal tube within glass gauge by turning coupling stud at bottom of lower glass gauge holder clockwise (viewed from the top). It is advisable to clean this tube by inserting a wire through its length. Remove glass gauge guard rods by lifting upward out of holders. Remove lower glass gauge coupling nut by turning counterclockwise. Remove upper glass gauge coupling nut by turning counterclockwise (viewed from the bottom). Place the coupling nuts and the washers on the new glass gauge in their respective positions for fastening to the glass gauge holder. Insert gauge as far as possible into the upper glass gauge holder. Place lower end of glass gauge into the lower glass gauge holders. Complete installation by reversing procedure for disassembly. New glass gauges must be thoroughly sterilized after installation by following the procedure given in the operations section of this manual. Be certain to check position of all glass petcocks before putting sterilizer into operation.

59. WATER STERILIZER, WILMOT CASTLE MODEL. a. Steam control valve, 7R06834 (fig. 32, part 6 and fig. 33).

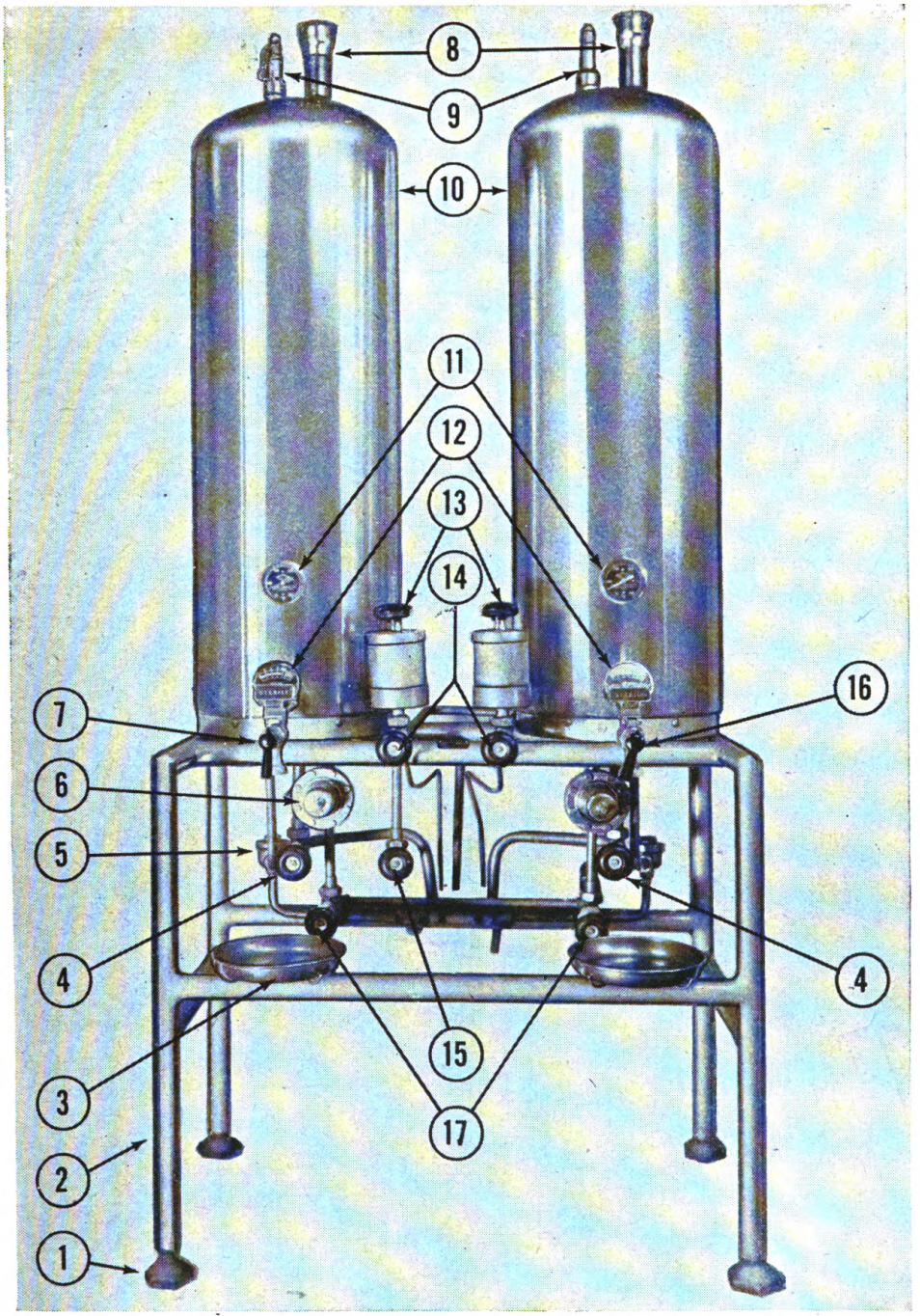
(1) To adjust the tank pressure, loosen lock nut, SR00422 (fig. 33, part 2), by turning counterclockwise. To increase tank pressure, slowly turn adjusting screw, 7R06846 (fig. 33, part 1), clockwise. To decrease, turn counterclockwise.

(2) To replace diaphragm, 7R06810 (fig. 33, part 8), loosen nut by turning counterclockwise. Remove adjusting screw by turning counterclock-



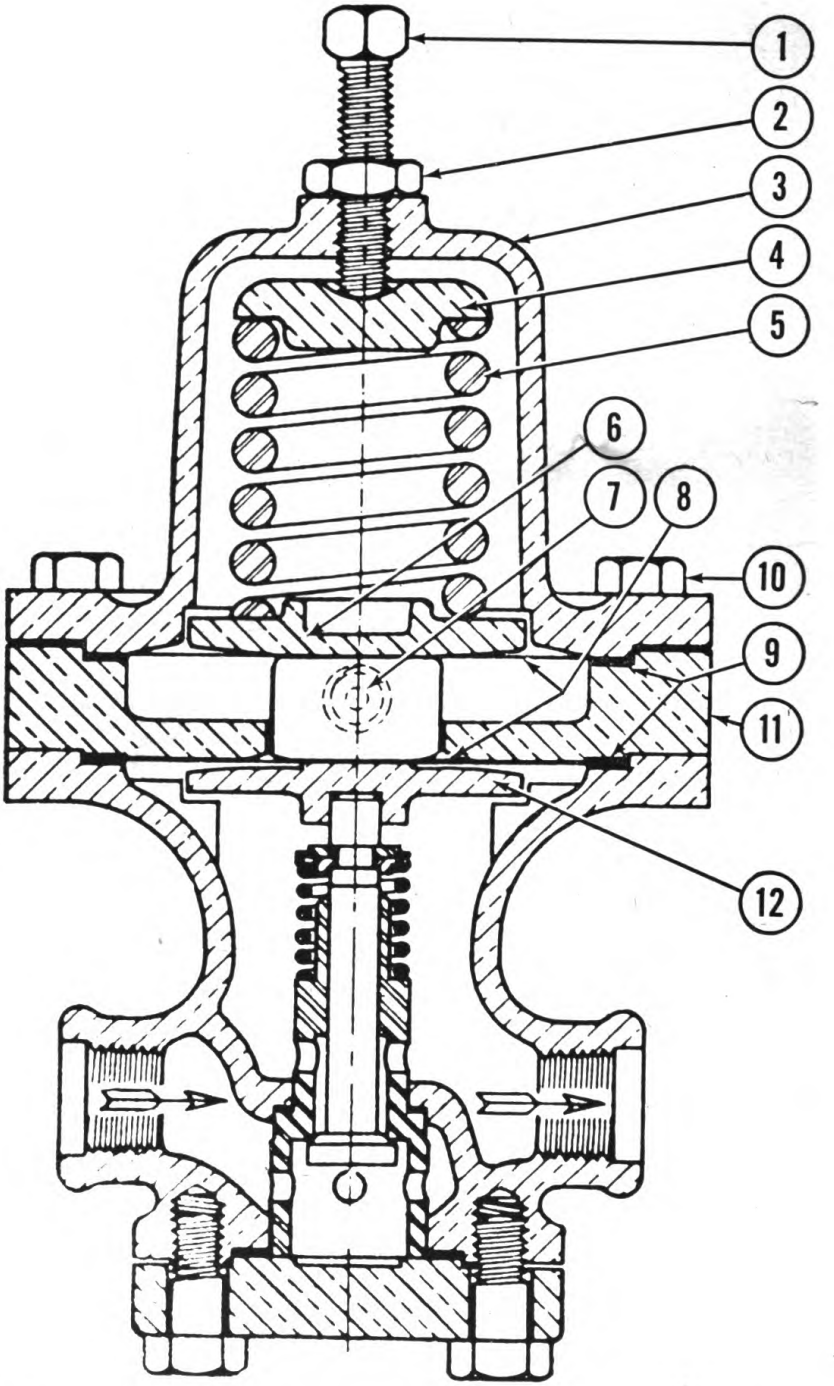
Med. Dept. No.	Nomenclature
1. 7R06724	Handle, Yoke, Water Filter.
2. 7R06726	Yoke, Water Filter.
3. 7R06728	Base, Water Filter.
4. 7R06666	Glass, Filter Cylinder.
5. SR00487	Element, Filtering, Fulflo.
6. 7R06730	Cap, Water Filter.
7. 7R06732	Spring, Pressure Coil, Water Filter.
8. 7R06734	Nut, Cap, Water Filter.
9. 7R06668	Gasket, Filter Cylinder.

Figure 31. Water filter, Part No. 7R06674, for water sterilizer, Scanlan-Morris Model.



Med. Dept. No.	Nomenclature	Med. Dept. No.	Nomenclature
1. 7R06072	Flange, Leveling Floor.	10. 7R06844	Tank, 25 Gallon.
2. 7R06840	Stand.	11. 7R06814	Thermometer.
3. 7R06842	Pan, Drip.	12. 7R06822	Gage, Water Level.
4. SR00518	Valve, Water, Jenkins No. ABTJK, ½ Inch, Complete. Assembly; for water waste.	13. 7R06826	Filter, Water, Complete.
		14. 7R06866	Valve, Water Supply, ⅜ Inch, With Bleeder, Complete.
5. SR00499	Trap, Steam, ⅜ Inch, 60 Lbs., Webster No. 780–2, Complete.	15. SR00515	Valve, Water, Jenkins No. ABTJK, ⅜ Inch, Complete. Assembly; for water cooling.
6. 7R06834	Valve, Steam Control, Complete.		
7. 7R06830	Valve, Draw Off, Cold, Complete.	16. 7R06832	Valve, Draw Off, Hot, Complete.
8. 7R06838	Filter, Air, Complete.	17. SR00509	Valve, Steam, Jenkins No. ABTJK, ⅜ Inch, Complete. Assembly; for steam supply.
9. SR00505	Valve, Safety, ½ Inch, 25 Lbs., Complete.		

Figure 32. Water sterilizer, item No. 7910240, manufactured by Wilmot Castle Co.



Med. Dept. No.	Nomenclature
1. 7R06846	Screw, Adjusting, Steam Control Valve.
2. SR00422	Nut, 5/16 x 18, Hex. For locking steam control valve.
3. 7R06848	Chamber, Spring, Steam Control Valve.
4. 7R06850	Seat, Spring, Steam Control Valve.
5. 7R06852	Spring, Pressure Coil, Steam Control Valve.
6. 7R06854	Plate, Diaphragm, Steam Control Valve.
7. 7R06856	Button, Pusher, Steam Control Valve.
8. 7R06810	Diaphragm, Steam Control Valve.
9. 7R06812	Washer, Diaphragm.
10. SR00583	Bolt, 1/4–20 x 1 1/4 Inch, Hex H.M. For steam control valve rim.
11. 7R06858	Spacer, Steam Control Valve.
12. 7R06860	Plate, Pusher, Steam Control Valve.

Figure 33. Steam control valve, part No. 7R06834, for water sterilizer, Wilmot Castle Co.

wise. This will release pressure of spring, 7R06852 (fig. 33, part 5). Remove spring chamber, 7R06848 (fig. 33, part 3), by removing rim bolts, SR00583 (fig. 33, part 10). Rim bolts are removed by turning counterclockwise.

Caution: When disassembling valve take note of the number of diaphragms used in the upper set and also in the lower set. The number of diaphragms used is the result of factory test and the same number must be replaced. Inspect all diaphragms and replace those found to be defective. New diaphragm washers, 7R06812 (fig. 33, part 9), should always be installed when reassembling the valve. When reassembling valve, check position of pusher plate, 7R06860 (fig. 33, part 12). Place first or lower washer in position. Put lower set of diaphragms in place. Be certain the same number of diaphragms are replaced. Put second washer on top of diaphragms. Place spacer, 7R06858 (fig. 33, part 11), and pusher button, 7R06856 (fig. 33, part 7), in position. Put new washer in the diaphragm receptacle in the upper side of spacer. Install second or upper set of diaphragms. Again be certain that the same number of diaphragms are used as were found when valve was disassembled. There is no washer used on upper side of the second or top set of diaphragms. Replace diaphragm plate, 7R06854 (fig. 33, part 6), pressure coil spring, and spring seat, 7R06850 (fig. 33, part 4). Then replace spring chamber and fasten rim bolts. Replace adjusting screw. Test valve after reassembly as explained in the paragraph on adjustment.

(3) Installation of complete control valve. Be certain that the arrows cast on the valve housing proper are pointing in the direction of the steam flow. Install the valve on the steam line first, then make the small pressure tubing connections.

b. Water filters, 7R06826 (fig. 32, part 13 and fig. 34).

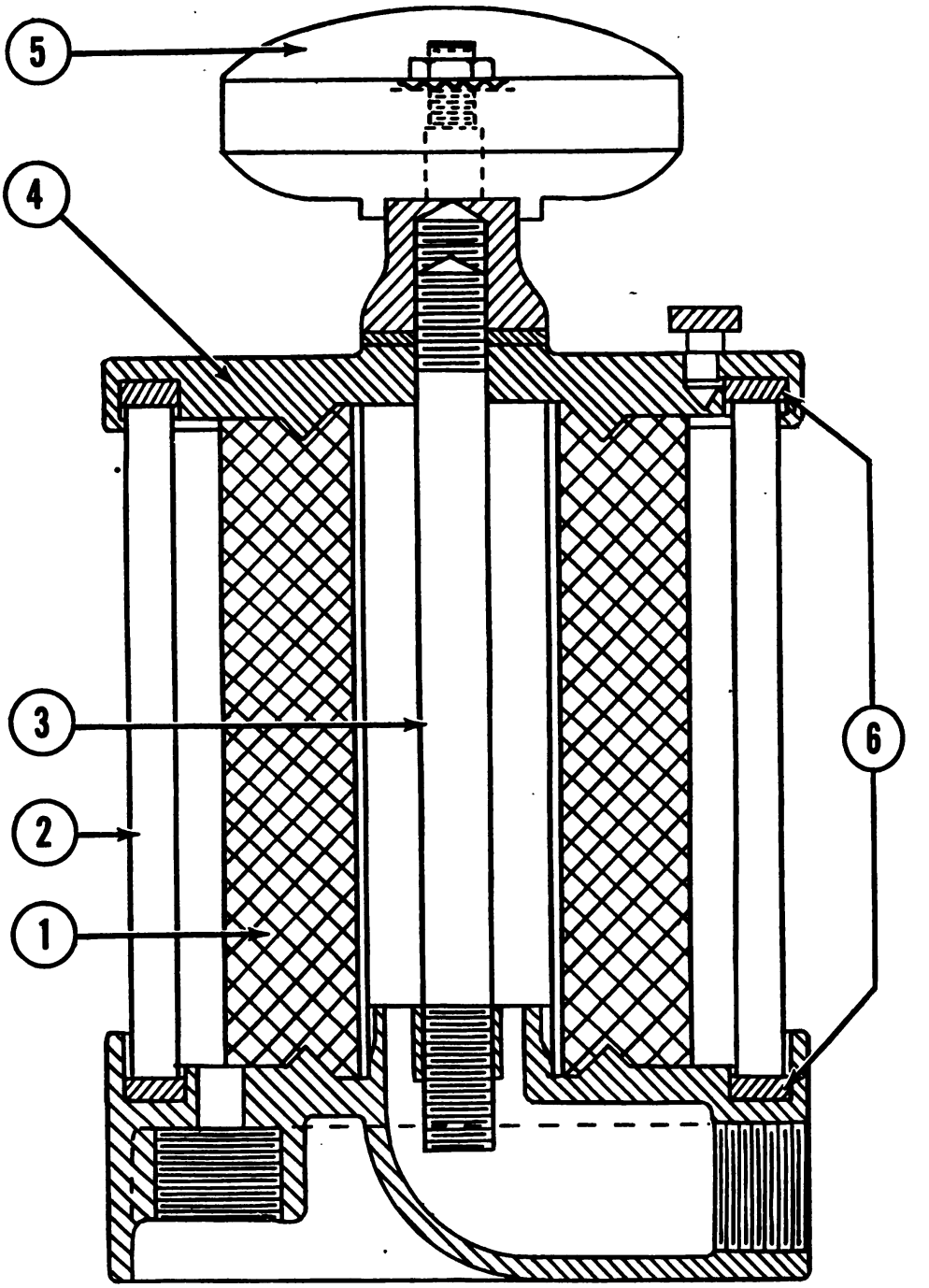
(1) To replace filter element, 7R06816 (fig. 34, part 1), turn the hand knob, 7R06068 (fig. 34, part 5), on top of filter counterclockwise until free of center post, 7R06862 (fig. 34, part 3). Lift off knob, filter cylinder cap, 7R06864 (fig. 34, part 4), and the glass cylinder. Remove old filter element and replace with new. Replace glass cylinder, cap, and knob and fasten by turning knob clockwise.

(2) To replace gaskets, 7R06820 (fig. 34, part 6), remove glass cylinder as for replacement of filter element. Remove old gaskets and replace with new. Follow same procedure as for replacing damaged glass cylinder.

c. Water level dial gauge, 7R06822 (fig. 32, part 12). (1) The reading on this gauge varies with the weight of the water within the tanks. The gauge is calibrated ¼, ½, ¾, and full. When the tank is heated and the water is under pressure the gauge will indicate to the right or above the full mark in the red area labeled "Steam Pressure." The gauge should not be considered defective because of this action.

(2) To replace dial glass, remove the dial glass lock ring by turning counterclockwise. Remove any particles of glass from ring and dial face. Care must be taken not to touch the indicator needle. Place new glass in position and fasten lock ring by turning clockwise on dial casing.

60. UTENSIL AND INSTRUMENT STERILIZERS, AMERICAN MODEL. a. Lid and tray lowering oil checks. Oil checks on both the instrument and utensil sterilizers are identical in operation. There are two sizes with the larger being used on the utensil sterilizer.

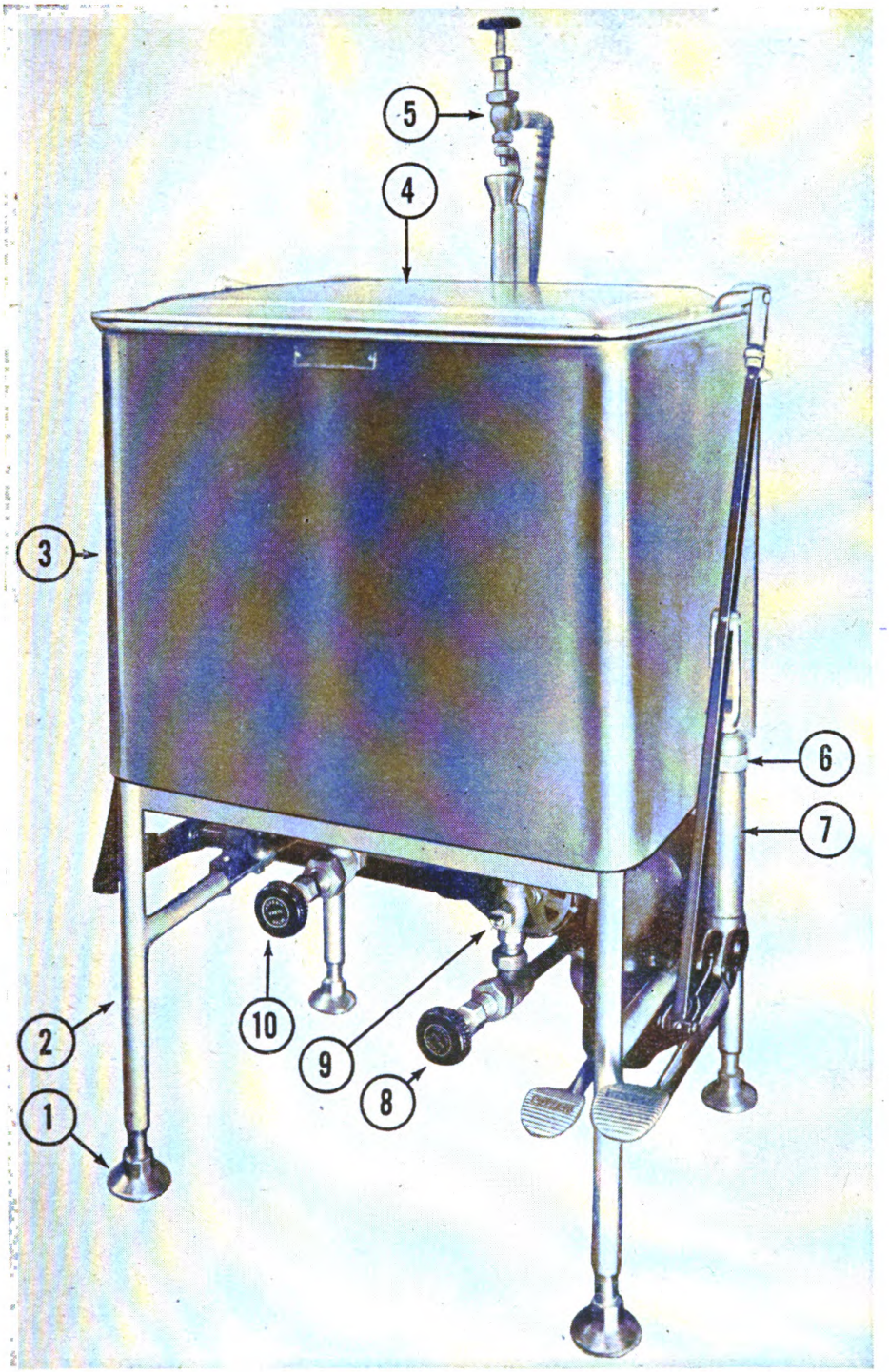


Med. Dept. No.	Nomenclature	Med. Dept. No.	Nomenclature
1. 7R06816	Element, Filtering, Fulflo.	4. 7R06864	Cap, Water Filter.
2. 7R06818	Glass, Filter Cylinder.	5. 7R06068	Knob.
3. 7R06862	Post, Center, Water Filter.	6. 7R06820	Gasket, Filter Cylinder.

Figure 34. Water filter, part No. 7R06826, for water sterilizer, Wilmot Castle Model.

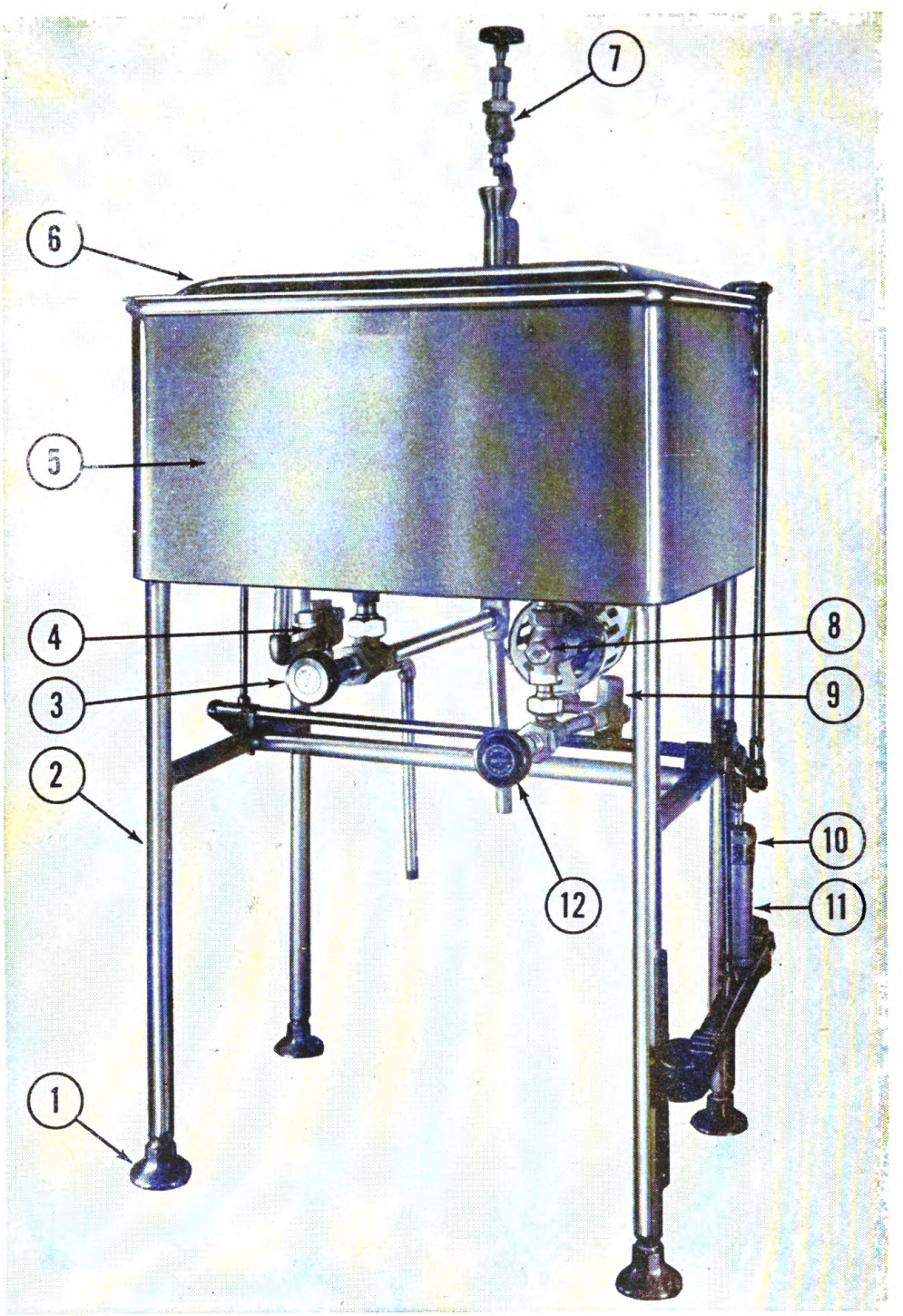
(1) To retard lowering of lid, rotate knurled cap, 7R07218 (fig. 35, part 6), on cylinder clockwise. Finger pressure is usually sufficient to rotate cap.

(2) To quicken lowering of lid, rotate cap counterclockwise.



Med. Dept. No.	Nomenclature	Med. Dept. No.	Nomenclature
1. 7R07210	Flange, Leveling Floor.	7. 7R07206	Check, Lid, Complete.
2. 7R07212	Stand.	8. SR00508	Valve, Steam, Jenkins No. ABTJI, ⅜ Inch, Complete. Assembly; for steam supply.
3. 7R07214	Boiler.		
4. 7R07216	Lid.	9. 7R07208	Valve, Steam Control, Complete.
5. SR00514	Valve, Water, Jenkins No. ABTJI, ⅜ Inch, Complete. Assembly; for water supply.	10. SR00517	Valve, Water, Jenkins No. ABTJI, ½ Inch, Complete. Assembly; for water waste.
6. 7R07218	Cap, Knurled, Lid Check.		

Figure 35. Utensil sterilizer, item No. 7910305, manufactured by American Sterilizer Co.



Med. Dept. No.	Nomenclature
1. 7R07708	Flange, Leveling Floor.
2. 7R07710	Stand.
3. SR00517	Valve, Water, Jenkins No. ABTJI, ½ Inch, Complete. Assembly; for water waste.
4. SR00499	Trap, Steam, ⅜ Inch, 60 Lbs.; Webster No. 780–2, Complete.
5. 7R07712	Boiler.
6. 7R07714	Lid.
7. SR00514	Valve, Water, Jenkins No. ABTJI, ⅜ Inch, Complete. Assembly; for water supply.
8. 7R07208	Valve, Steam Control, Complete.
9. SR00503	Strainer, Steam, ⅜ Inch, Complete.
10. 7R07716	Cap, Knurled, Lid Check.
11. 7R07706	Check, Lid, Complete.
12. SR00508	Valve, Steam, Jenkins No. ABTJI, ⅜ Inch, Complete. Assembly; for steam supply.

Figure 36. Instrument sterilizer, item No. 7910427, manufactured by American Sterilizer Co.

(3) Add oil to check, when necessary, by depressing lid lift pedal and turning cap on cylinder clockwise until it is free of cylinder. Add OIL, engine, SAE 30 (OE) by pouring directly into cylinder.

b. Steam control valve, 7R07208 (fig. 35, part 9, and fig. 36, part 8).

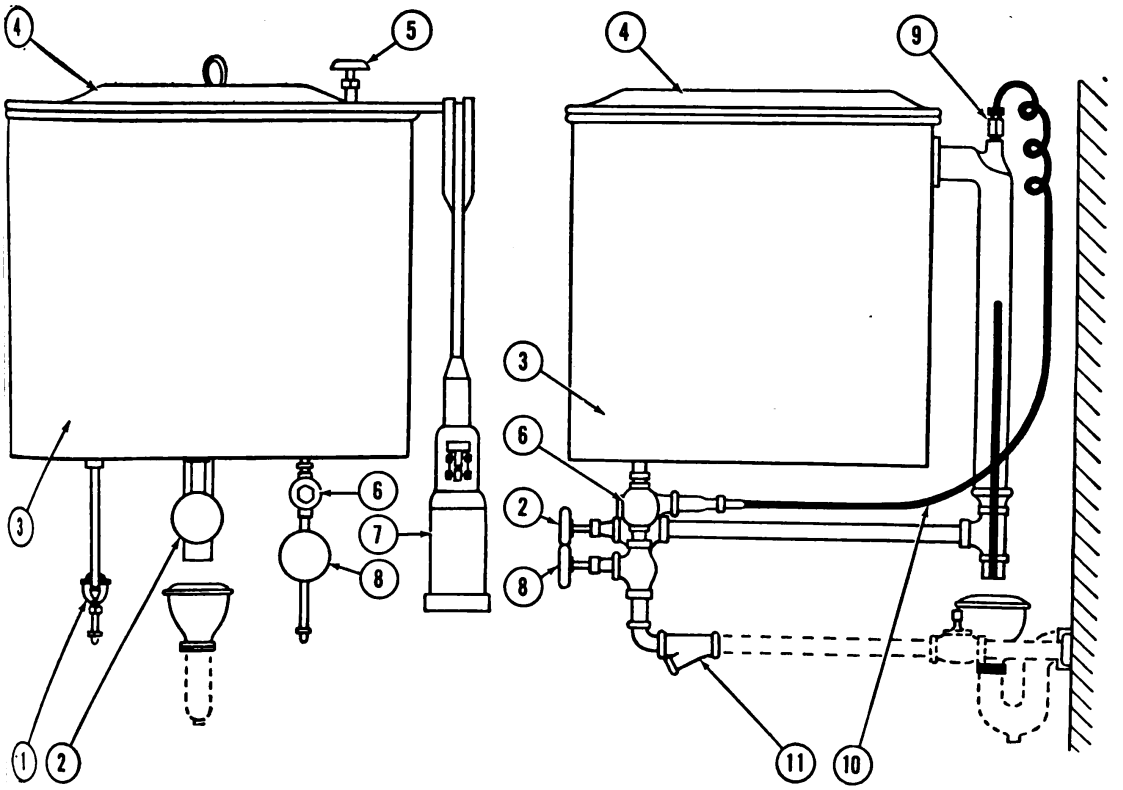
(1) Only some models of utensil and instrument sterilizers are equipped with steam control valves.

(2) Adjust control by means of stem extending from front of valve housing proper. To increase vapor generation turn stem clockwise. To decrease turn stem counterclockwise.

(3) To replace complete control, disconnect the thermal bulb by turning clockwise (viewed from top) in its housing on lower part of vacuum breaker and water inlet casting at rear of sterilizer. Disconnect coupling from steam supply line by turning coupling counterclockwise. Caution must be taken not to damage thermal bulb or tubing during this operation. Install new control by reversing procedure.

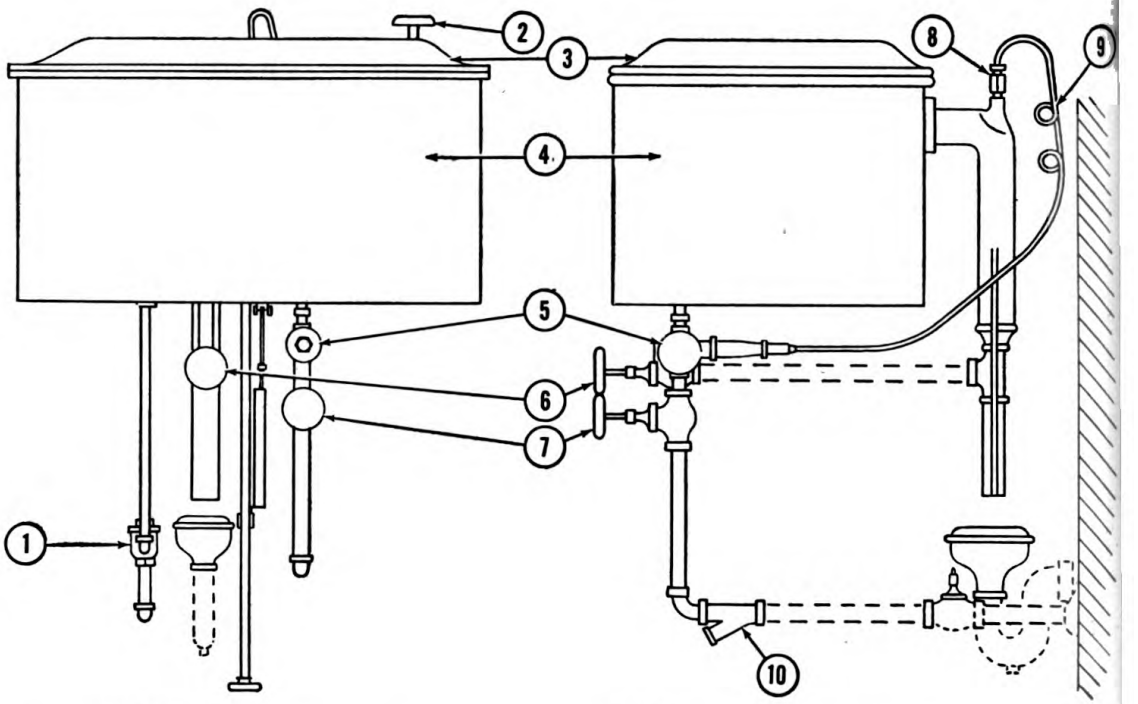
61. UTENSIL AND INSTRUMENT STERILIZERS, HOSPITAL SUPPLY MODEL.

See figures 37 and 38.



Med. Dept. No.	Nomenclature
1. SR00499	Trap, Steam, ⅜ Inch, 60 Lbs., Webster No. 780–2, Complete.
2. SR00520	Valve, Water, Jenkins No. ABTJH, ¾ Inch, Complete. Assembly; for water waste.
3. 7R07110	Boiler.
4. 7R07112	Lid.
5. 7R06376	Valve, Water Supply, With Bleeder, Complete.
6. 7R07108	Valve, Steam Control, Complete.
7. 7R07106	Lift, Lid, Complete.
8. SR00508	Valve, Steam, Jenkins No. ABTJI, ⅜ Inch, Complete. Assembly; for steam supply.
9.	Steam Control Valve Thermal Bulb.
10.	Steam Control Tubing.
11. SR00503	Strainer, Steam, ⅜ Inch, Complete.

Figure 37. Utensil sterilizer, item No. 7910305, manufactured by Hospital Supply Co.



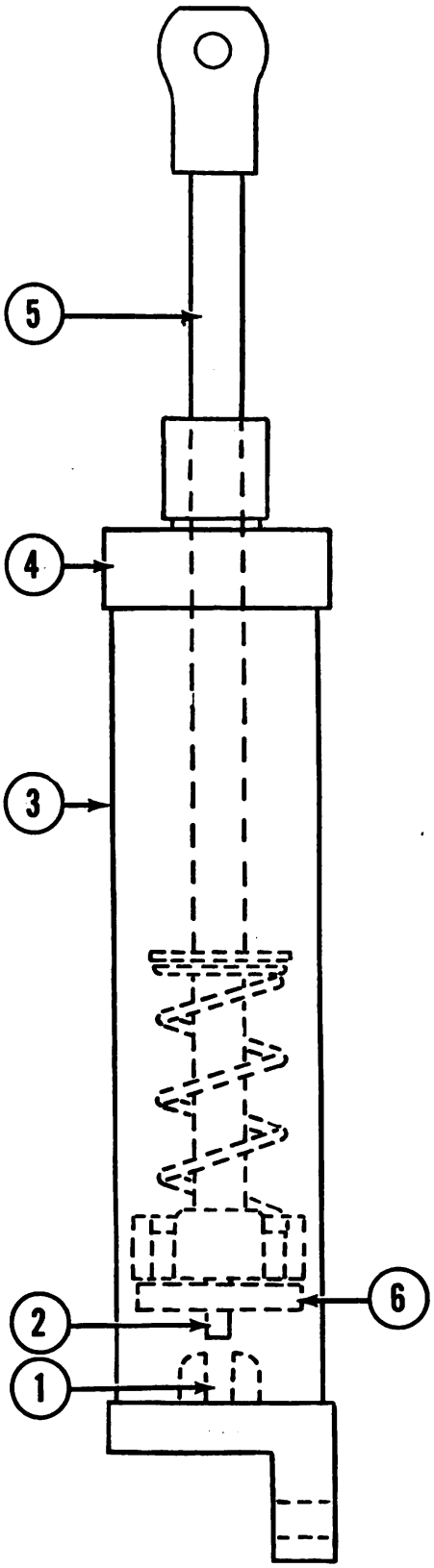
Med. Dept. No.	Nomenclature	Med. Dept. No.	Nomenclature
1. SR00499	Trap, Steam, ⅜ Inch, 60 Lbs., Webster No. 780–2, Complete.	6. SR00520	Valve, Water, Jenkins No. ABTJH, ¾ Inch, Complete. Assembly for waste.
2. 7R06376	Valve, Water Supply, With Bleeder, Complete.	7. SR00507	Valve, Steam, Jenkins No. ABTJA, ¾ Inch, Complete. Assembly; for steam supply.
3. 7R07612	Lid.	8.	Steam Control Valve Thermal Bulb.
4. 7R07614	Boiler.	9.	Steam Control Valve Tubing.
5. 7R07108	Valve, Steam Control, Complete.	10. SR00503	Strainer, Steam, ⅜ Inch, Complete.

Figure 38. Instrument sterilizer, item No. 7910427, manufactured by Hospital Supply Co.

a. Lid and tray lowering oil check on instrument sterilizer. (1) To adjust, detach piston rod, 7R07622 (fig. 39, part 5), from sterilizer. Force piston rod as far as possible into cylinder, 7R07618 (fig. 39, part 3). Turn rod right or left until it moves slightly farther into cylinder at which point it will seat the adjusting screw, 7R07616 (fig. 39, part 2), on bottom of piston into the adjustment screw slot, (fig. 39, part 1), in bottom of cylinder. To retard action, turn piston rod clockwise one quarter turn. To quicken action, turn piston rod counterclockwise. Attach piston rod to sterilizer body and test action of lid and tray. Repeat process until proper action is obtained.

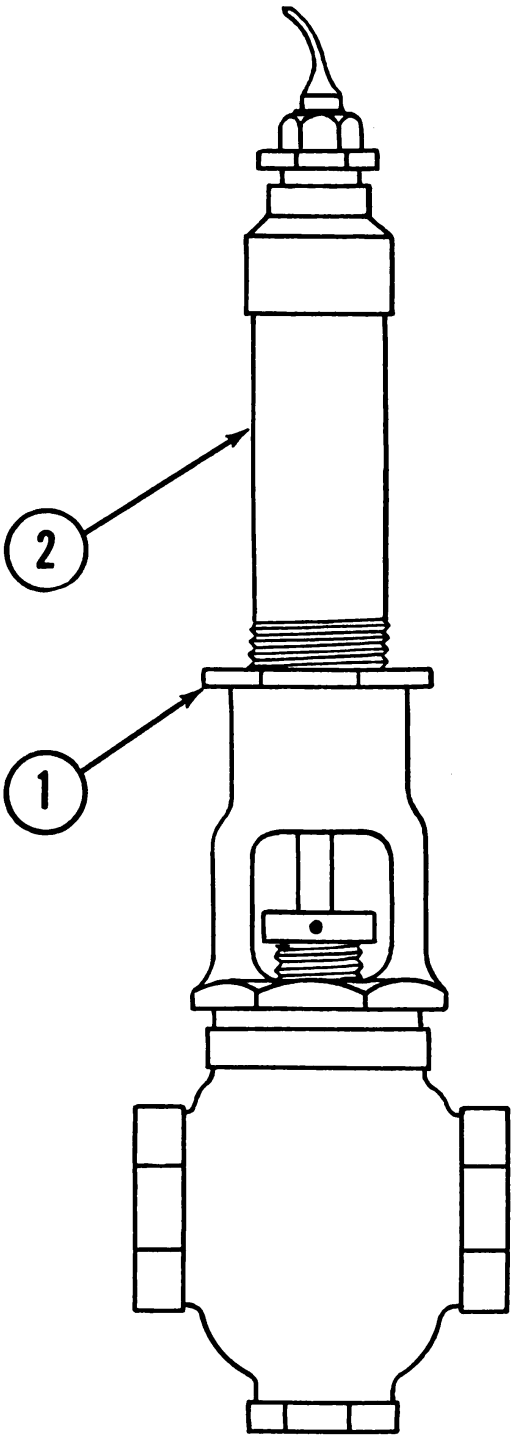
(2) To add oil to check. Proper level of oil is ¾ inch from top edge of cylinder. Remove cap, 7R07620 (fig. 39, part 4), from cylinder by turning counterclockwise. Add OIL, engine, SAE 30 (OE) by pouring into cylinder. Replace cap.

b. Hydraulic lid and tray lift on utensil sterilizer. To add oil, remove the oil filling cap on top of lift housing. Add only a small quantity of engine oil at a time, replace cap and test. There is no means of checking the oil level in this lift but too great a quantity will cause complete failure of lift.



Med. Dept. No.	Nomenclature
1.	Adjustment Screw Slot.
2. 7R07616	Screw, Adjusting, Lid Check.
3. 7R07618	Cylinder, Lid Check.
4. 7R07620	Cap, Lid Check.
5. 7R07622	Rod, Piston, Lid Check.
6. 7R07624	Washer, Lid Check.

Figure 39. Lid check, part No. 7R07606, for instrument sterilizer, Hospital Supply Model.



Med. Dept. No.	Nomenclature
1. 7R07118	Nut, Lock, Steam Control Valve.
2. 7R07120	Tube, Adjusting, Steam Control Valve.

Figure 40. Steam control valve, part No. 7R07108.

The correct quantity of oil is 1½ pints. If, when adding oil, the level becomes too high in the lift it will be necessary to remove lift from sterilizer and pour all oil from lift by tilting. Then measure 1½ pints of oil into lift and replace lift on sterilizer.

c. Steam control valve, 7R07108 (fig. 37, part 6, fig. 38, part 5 and fig. 40).

(1) Only some models of utensil and instrument sterilizers are equipped with steam control valves.

(2) To adjust, loosen lock nut, 7R07118 (fig. 40, part 1), and turn tube, 7R07120 (fig. 40, part 2), counterclockwise a few turns. Permit sterilizer to heat until vapor escapes from edge of sterilizer boiler. Very slowly turn tube clockwise until vapor escape is eliminated. A slight additional adjustment may be necessary. Tighten lock nut.

(3) To replace, remove the thermal bulb (fig. 37, part 9) from the vapor vent housing on rear of sterilizer by turning counterclockwise. Then remove valve proper from steam supply line being careful not to damage the bulb or the small tubing, (fig. 37, part 10), which connects thermal bulb and control valve proper.

62. UTENSIL AND INSTRUMENT STERILIZERS, SCANLAN-MORRIS MODEL. See figures 41 and 42.

a. Lid and tray lowering oil checks. The checks on both the instrument and the utensil sterilizers are identical in operation. There are two sizes with the larger being used on the utensil sterilizer.

(1) To adjust remove the hinge pin, 7R07818 (fig. 43, part 3), at the top end of the piston rod, 7R07824 (fig. 43, part 7). Push piston rod to bottom of cylinder, 7R07816 (fig. 43, part 1), and rotate until the adjusting nut, 7R07828 (fig. 43, part 9), slips into the adjusting slot, (fig. 43, part 10), in the bottom of the cylinder. To retard action rotate the piston rod clockwise one quarter turn. To quicken action, rotate piston rod counterclockwise. Replace hinge pin and test action of lid. Repeat until desired action is obtained.

(2) To add oil to check, remove the check cap, 7R07814 (fig. 43, part 2). Add OIL, engine, SAE 30 (OE) by pouring directly into cylinder until the oil level is ¾ inch below cylinder top.

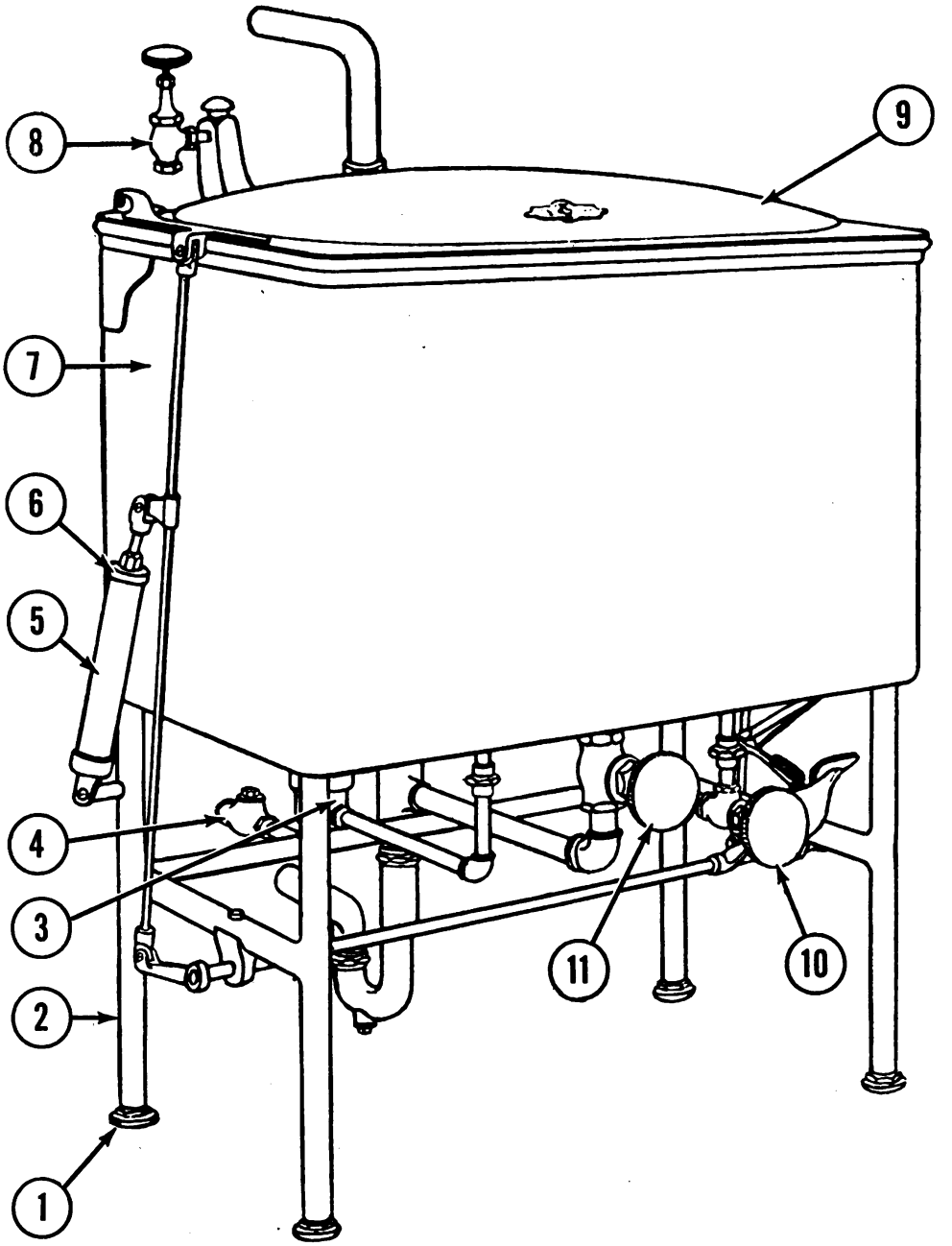
(3) To replace oil seal, 7R07822 (fig. 43, part 5), remove hinge pin. Remove hinge pin holder, 7R07820 (fig. 43, part 4), by turning counterclockwise on piston rod. Remove cap from cylinder and lift off of piston rod. Remove oil seal retainer screws, SR00040 (fig. 43, part 6), from interior of cap. Remove oil seal and replace with a new one. Reassemble lid check by reversing procedure.

b. Steam Control valve, 7R07308. (1) Only some models of utensil and instrument sterilizers are equipped with steam control valves.

(2) Adjustment. To increase vapor generation turn adjustment screw, front of valve housing proper, one quarter turn clockwise. Allow sufficient time for adjustment to react on control. Repeat until proper vapor generation is obtained. To decrease vapor generation turn adjustment screw counterclockwise following procedure explained in preceding paragraph.

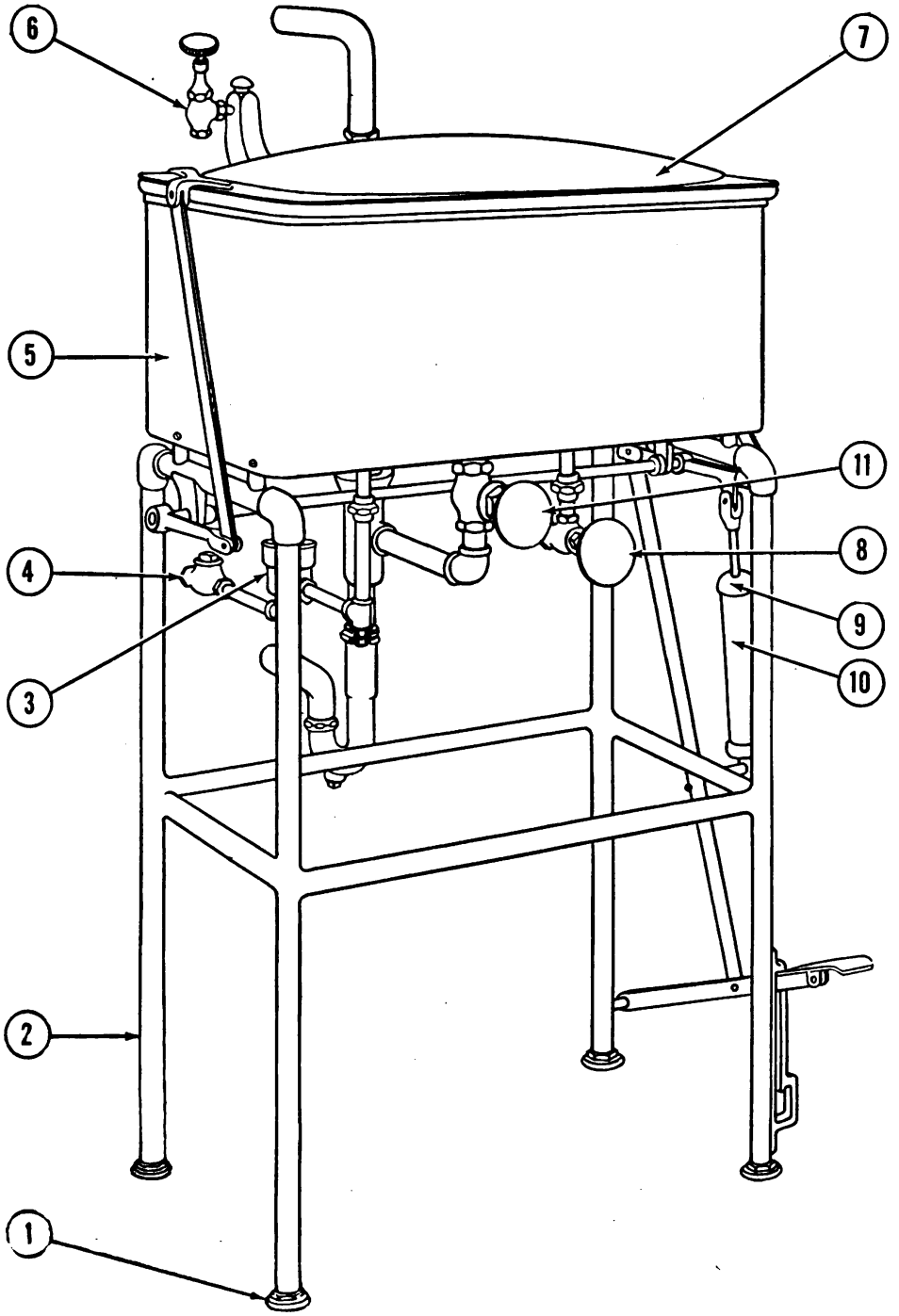
(3) To replace complete control remove thermal bulb from water inlet housing, on rear of sterilizer, by turning coupling counterclockwise. Then remove control and valve proper from steam supply line. Care must be taken not to damage thermal bulb or the small connecting tubing during removal. Install new control by reversing procedure.

63. UTENSIL AND INSTRUMENT STERILIZERS, WILMOT CASTLE MODEL. See figures 44 and 45.



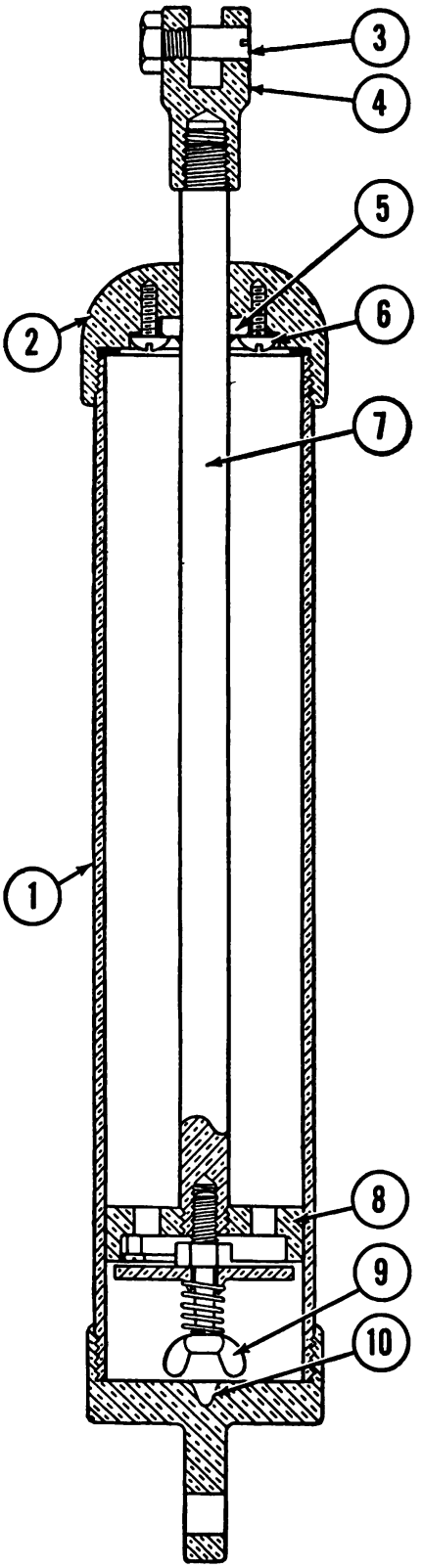
Med. Dept. No.	Nomenclature
1. 7R05926	Flange, Leveling Floor.
2. 7R07310	Stand.
3. SR00499	Trap, Steam, ⅜ Inch, 60 Lbs., Webster No. 780–2, Complete.
4. SR00521	Valve, Steam, Check, ⅜ Inch, Jenkins No. ABTVO, Complete.
5. 7R07306	Check, Lid, Complete.
6. 7R07312	Cap, Lid Check.
7. 7R07314	Boiler.
8. SR00514	Valve, Water, Jenkins No. AVTJI, ⅜ Inch, Complete. Assembly; for water supply.
9. 7R07316	Lid.
10. SR00508	Valve, Steam, Jenkins No. ABTJI, ⅜ Inch, Complete. Assembly; for steam supply.
11. SR00520	Valve, Water, Jenkins No. ABTJH, ¾ Inch, Complete. Assembly; for water waste.

Figure 41. Utensil sterilizer, item No. 7910305, manufactured by Scanlan-Morris Co.



Med. Dept. No.	Nomenclature
1. 7R05926	Flange, Leveling Floor.
2. 7R07808	Stand.
3. SR00499	Trap, Steam, ⅜ Inch, 60 Lbs., Webster No. 780–2, Complete.
4. SR00521	Valve, Steam, Check, ⅜ Inch, Jenkins No. ABTVO, Complete.
5. 7R07810	Boiler.
6. SR00514	Valve, Water, Jenkins No. ABTJI, ⅜ Inch, Complete. Assembly; for water supply.
7. 7R07812	Lid.
8. SR00508	Valve, Steam, Jenkins No. ABTJI, ⅜ Inch, Complete. Assembly; for supply.
9. 7R07814	Cap, Lid Check.
10. 7R07806	Check, Lid, Complete.
11. SR00520	Valve, Water, Jenkins No. ABTJH, ¾ Inch, Complete. Assembly; for water waste.

Figure 42. Instrument sterilizer, item No. 7910427, manufactured by Scanlan-Morris Co.



	Med. Dept. No.	Nomenclature
1.	7R07816	Cylinder, Lid Check.
2.	7R07814	Cap, Lid Check.
3.	7R07818	Pin, Hinge, Lid Check.
4.	7R07820	Holder, Hinge Pin, Lid Check.
5.	7R07822	Seal, Oil, Lid Check.
6.	SR00040	Screw, 6–32 x ¼ Inch, R.H.M. For lid check oil seal.
7.	7R07824	Rod, Piston, Lid Check.
8.	7R07826	Piston, Lid Check.
9.	7R07828	Nut, Wing, Adjusting, Lid Check.
10.		Adjusting Slot.

Figure 43. Lid check, part No. 7R7806, for Instrument Sterilizer, Scanlan-Morris Co.

a. Lid and tray lowering oil check on instrument sterilizers. (1) There is no adjustment on this oil check.

(2) Services. Should lid and tray lower very slowly, it may be caused by the clogging of the oil passage, (fig. 46, part 1), in plate, 7R07930 (fig. 46, part 10). To correct, disconnect check from sterilizer at hinge pin holder, 7R07918 (fig. 46, part 4). Remove cap, 7R07924 (fig. 46, part 7), by turning counterclockwise. Remove piston, 7R07928 (fig. 46, part 9), and piston rod, 7R07916 (fig. 46, part 3), from cylinder, 7R07926 (fig. 46, part 8). Use a straight pin to open oil passage in piston plate on lower side of piston. During removal of piston care should be taken not to spill the oil contained in cylinder. Reassemble by reversing procedure. Test for proper adjustment.

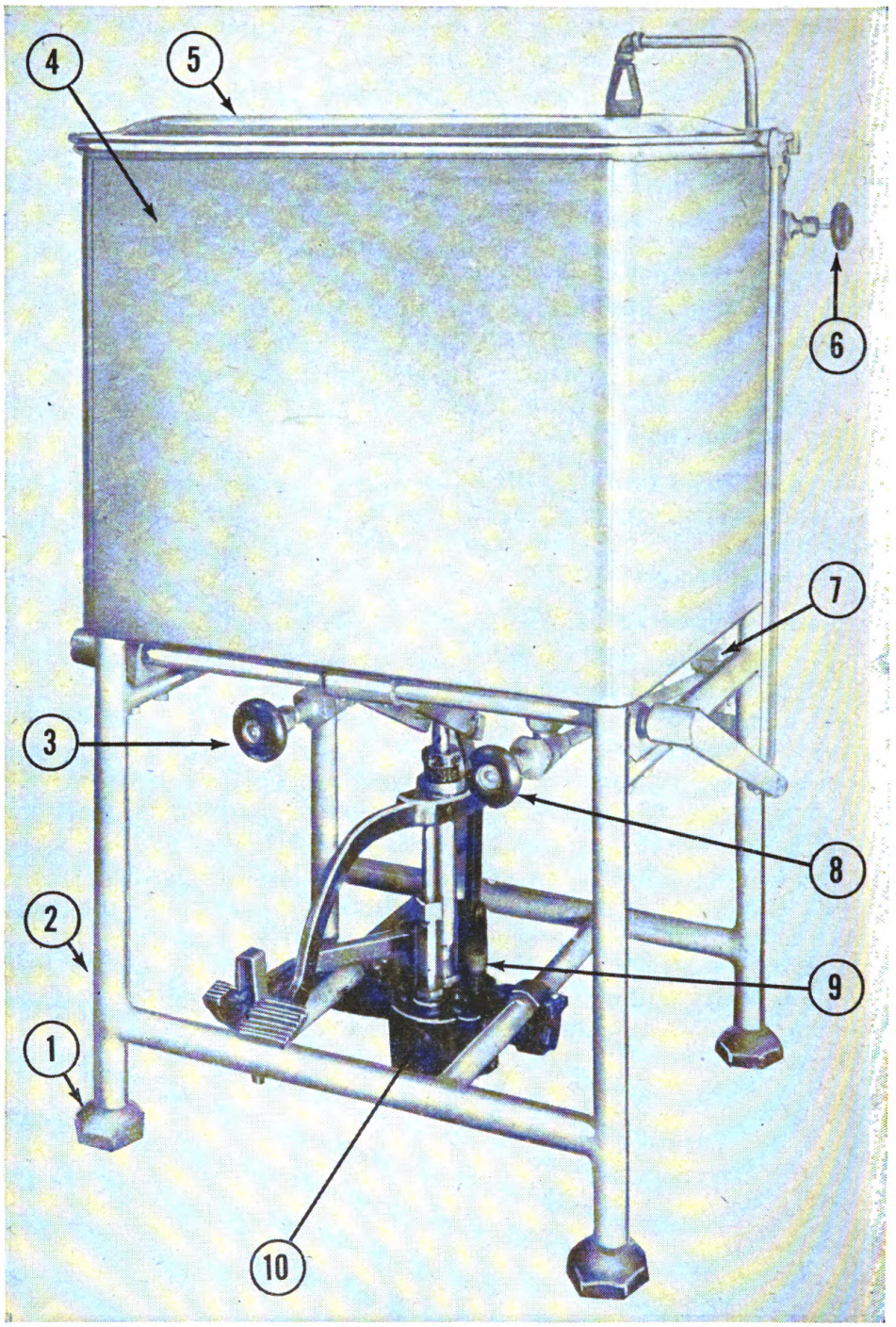
(3) To add oil to check remove cap by turning counterclockwise and pour OIL, engine, SAE 30 (OE) directly into cylinder until oil level is ½ inch from top of cylinder.

b. Hydraulic lid and tray lift on utensil sterilizers. To add oil remove oil filling cup, 7R07420 (fig. 44, part 9), on base of lift housing. Add only a small quantity of oil. Replace cap on filling cup and test. Repeat process until lift functions properly.

c. Steam control valve, 7R07408 (fig. 44, part 7, fig. 45, part 9, and fig. 47).

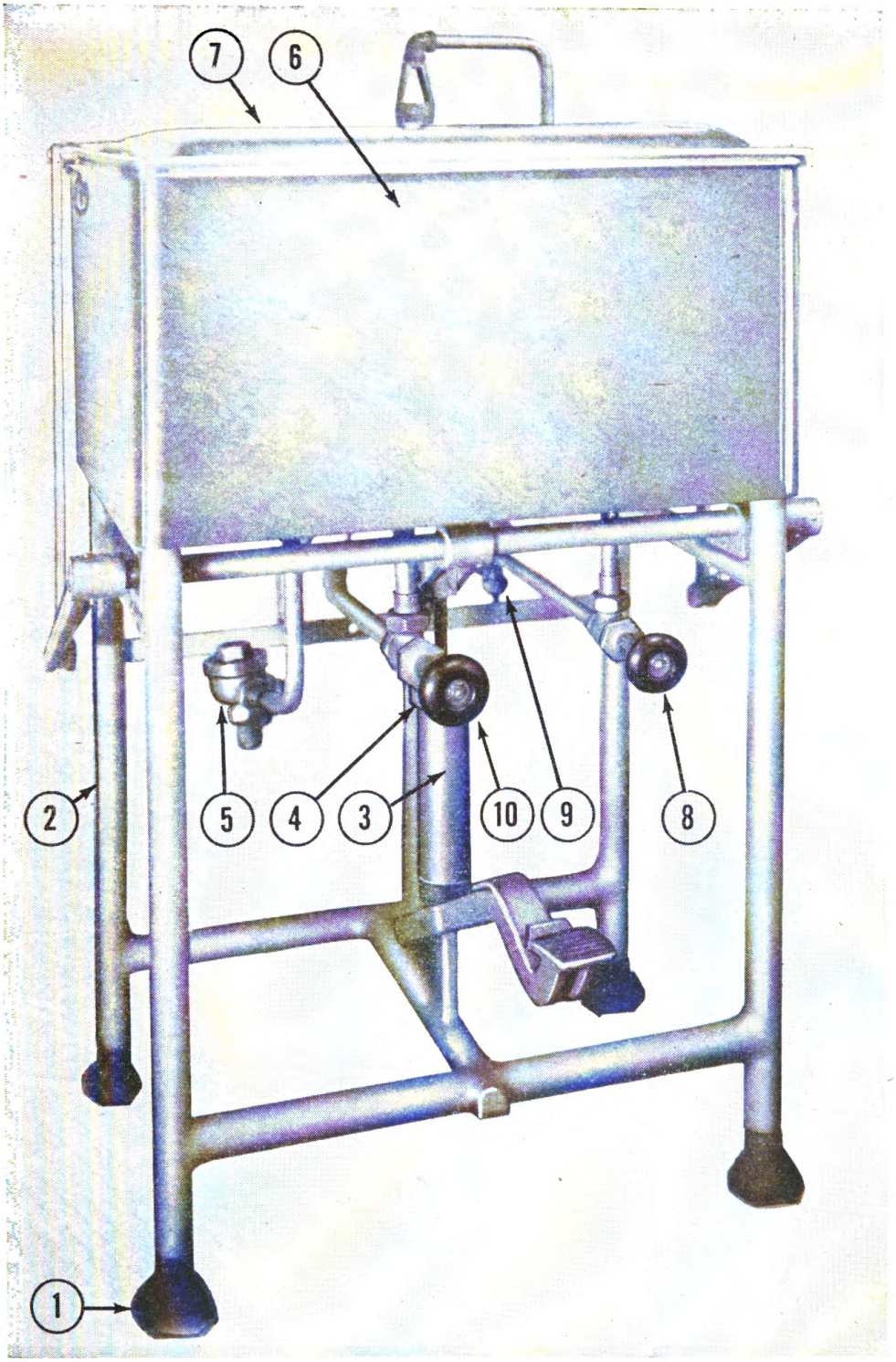
(1) To increase vapor generation, remove adjustment screw cap, 7R07424 (fig. 47, part 3). Turn adjusting screw, 7R07426 (fig. 47, part 4), clockwise one full turn. Repeat the process, allowing several minutes to elapse between turns, until proper generation is obtained. To decrease vapor generation, turn adjusting screw counterclockwise. Follow procedure as stated above.

(2) To replace complete control, remove thermal bulb, (fig. 47, part 1), from the housing provided on rear of sterilizer by turning coupling nut, 7R07422 (fig. 47, part 2), counterclockwise and sliding bulb from housing. Remove control valve proper from steam supply line. Care must be taken not to damage the bulb or the connecting tubing (fig. 47, part 5) during removal. When installing new control, be certain that the arrow cast on the valve housing points in the direction of the steam flow.



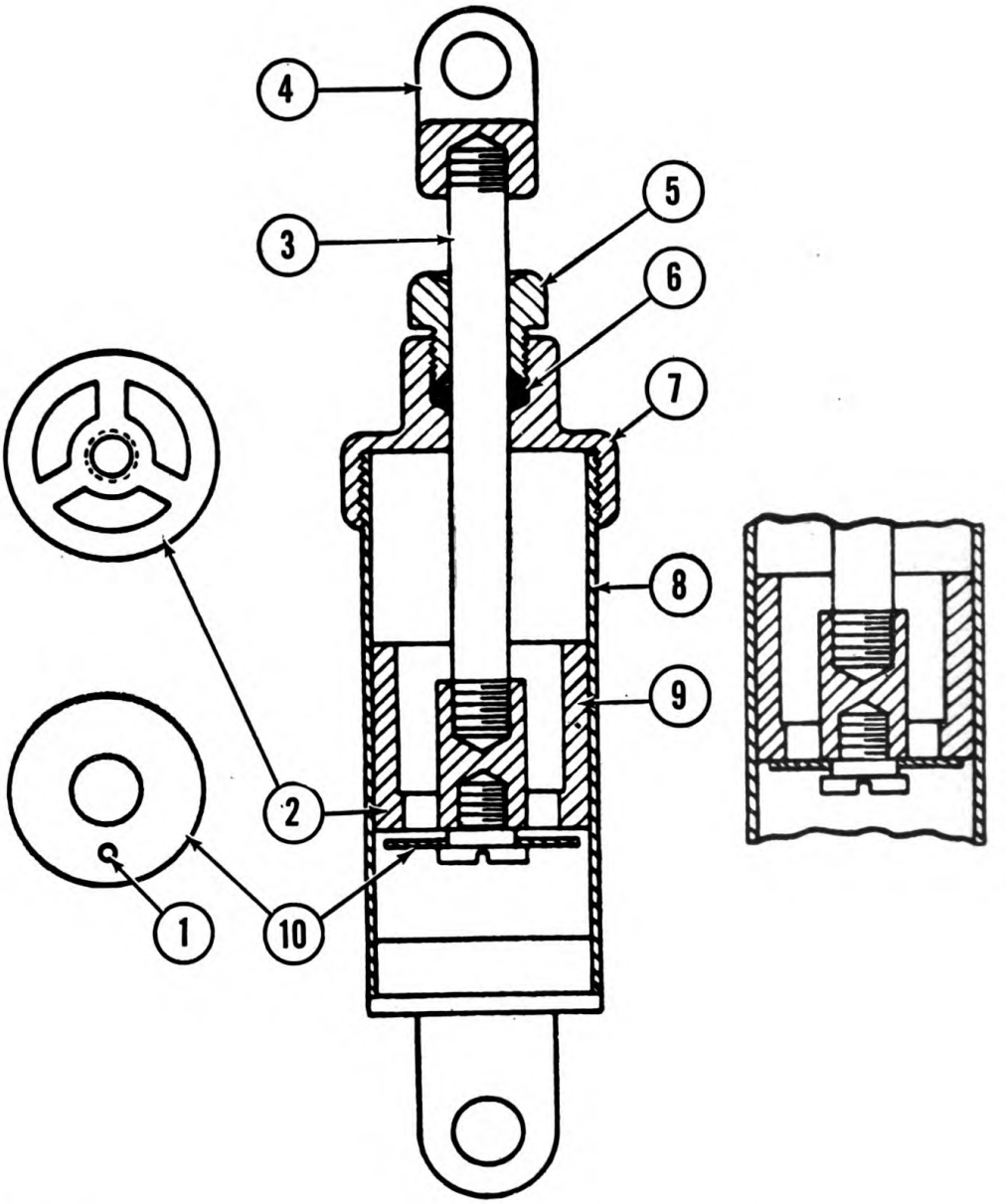
Med. Dept. No.	Nomenclature
1. 7R06072	Flange, Leveling Floor.
2. 7R07414	Stand.
3. SR00519	Valve, Water, Jenkins No. ABTJL, ½ Inch, Complete. Assembly; for water waste.
4. 7R07416	Boiler.
5. 7R07418	Lid.
6. 7R06870	Valve, Water Supply, ⅜ Inch, With Bleeder, Complete.
7. 7R07408	Valve, Steam Control, Complete.
8. SR00510	Valve, Steam, Jenkins No. ABTJL, ⅜ Inch, Complete. Assembly; for steam supply.
9. 7R07420	Cup, Oil Filling, Lid Lift.
10. 7R07406	Lift, Lid, Complete.

Figure 44. Utensil sterilizer, item No. 7910305, manufactured by Wilmot Castle Co.



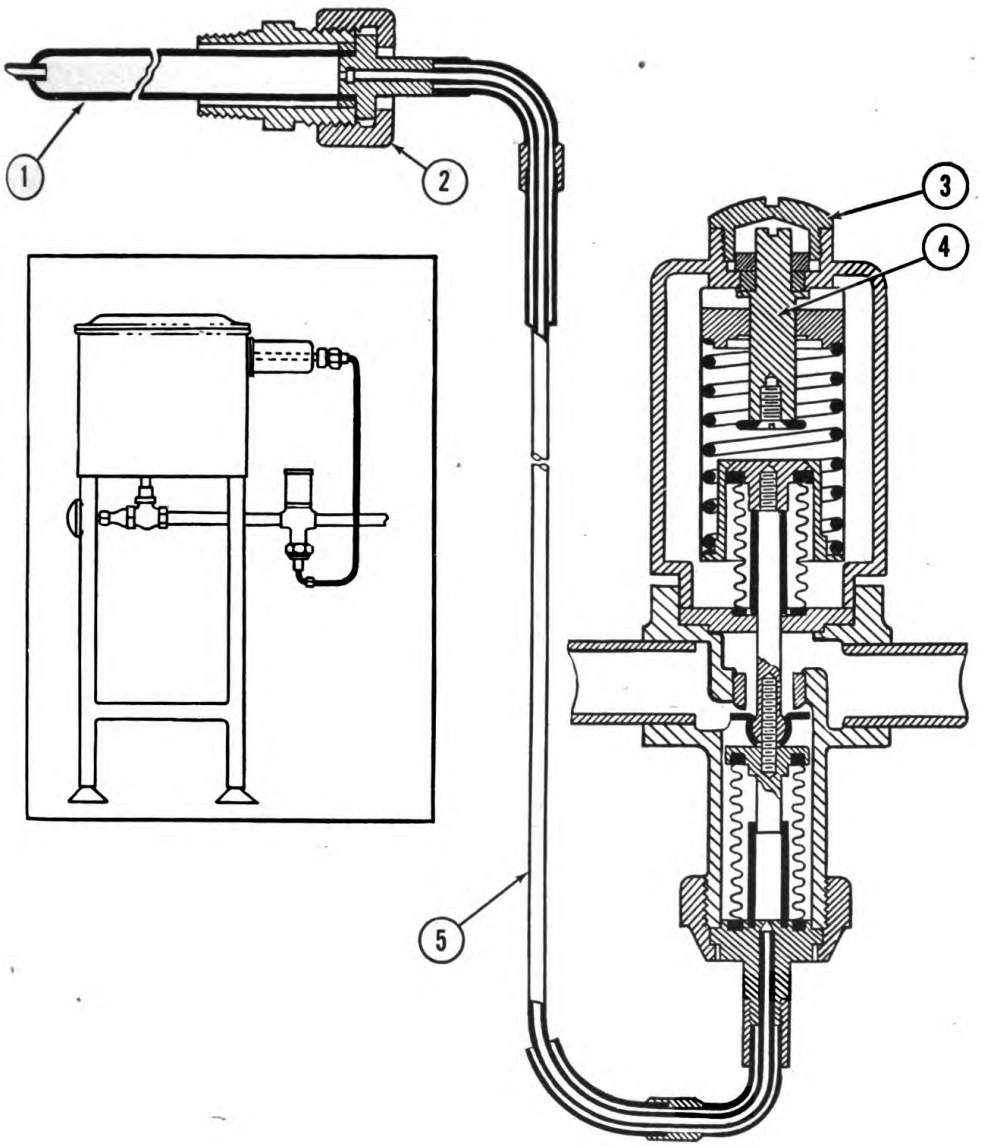
Med. Dept. No.	Nomenclature
1. 7R06072	Flange, Leveling Floor.
2. 7R07908	Stand.
3. 7R07906	Check, Lid, Complete.
4. 7R07910	Cap, Lid Check.
5. SR00499	Trap, Steam, ⅜ Inch, 60 Lbs., Webster No. 780–2, Complete.
6. 7R07912	Boiler.
7. 7R07914	Lid.
8. SR00510	Valve, Steam, Jenkins No. ABTJL, ⅜ Inch, Complete. Assembly; for steam supply.
9. 7R07408	Valve, Steam Control, Complete.
10. SR00519	Valve, Water, Jenkins No. ABTJL, ½ Inch, Complete. Assembly; for water waste.

Figure 45. Instrument sterilizer, item No. 7910427, manufactured by Wilmot Castle Co.



Med. Dept. No.	Nomenclature	Med. Dept. No.	Nomenclature
1.	Piston Plate Oil Passage.	6. 7R07922	Seal, Oil, Lid Check.
2.	Piston Bottom.	7. 7R07924	Cap, Cylinder, Lid Check.
3. 7R07916	Rod, Piston, Lid Check.	8. 7R07926	Cylinder, Lid Check.
4. 7R07918	Holder, Hinge Pin, Lid Check.	9. 7R07928	Piston, Lid Check.
5. 7R07920	Nut, Cap, Oil Seal, Lid Check.	10. 7R07930	Plate, Piston, Lid Check.

Figure 46. Lid check, part No. 7R07906, for instrument sterilizer, Wilmot Castle Model.



Med. Dept. No.	Nomenclature	Med. Dept. No.	Nomenclature
1.	Thermal Bulb.	3. 7R07424	Cap, Adjusting Screw, Steam Control Valve.
2. 7R07422	Nut, Thermal Bulb Coupling, Steam Control Valve.	4. 7R07426	Screw, Adjusting, Steam Control Valve.
		5.	Steam Control Valve Tubing.

Figure 47. Steam control valve, part No. 7R07408, for utensil and instrument sterilizers, Wilmot Castle Model.

CHAPTER 7

HORIZONTAL DRESSING AND UTENSIL STERILIZER, 9950000

SECTION I. PREVENTIVE MAINTENANCE SERVICE

64. DAILY. **a.** Fill jacket boiler.

b. Read complete instruction for burner operation. See TM 8–615, Gasoline Stoves and Burners.

c. Check water supply in jacket boiler.

d. Check operation of burner. See TM 8–615.

e. Test safety valve.

f. Wipe out inside of sterilizer.

g. Clean plug screen in discharge nozzle.

65. MONTHLY. Clean lime deposits from sterilizer. See paragraph 57m.

SECTION II. TROUBLE SHOOTING

66. BURNER FAILS TO OPERATE. See TM 8–615, Gasoline Stoves and Burners.

67. SAFETY VALVES BLOWING CONTINUALLY.

Possible causes	*Possible remedies*
Faulty safety valve.	Replace
Burners too high.	Turn down burners.

68. LACK OF STEAM PRESSURE IN JACKET.

Possible causes	*Possible remedies*
Little or no water in boiler.	Add water.
Faulty steam trap.	Repair or replace steam trap.
Poor burner operation.	See TM 8–615 for operation of burner.

SECTION III. MAINTENANCE OPERATIONS

69. GENERAL. **a.** Clean sterilizer chamber, dressing tray, and strainer at front of chamber. Flush with clear water. Do not scrape any deposit from the interior of the chamber. Wiping thoroughly with a clean damp cloth is sufficient to remove loose deposits.

b. Raise safety valve lever, during operation, to test. Only a very slight pressure on lever should be necessary to release valve. Should the safety valve be stuck, make no attempt to adjust or repair it. The entire valve, 9R00302, must be replaced.

c. At all times keep water level within 3 inches of the top of the glass gauge.

d. Remove cleanout cover. The cleanout cover is at the rear lower edge of jacket. Use scraper, 9R00406 (fig. 4, part 1 and fig. 5, part 4), to remove the scale and sediment from the jacket interior. It is advisable to replace the cleanout cover gaskets before replacing cover.

e. Clean glass gauge, 9R00310 (fig. 5, part 26), when level of water is difficult to determine. To remove glass gauge, lift guard rods, 9R00404 (fig. 5, part 25), from holders. Remove upper and lower glass gauge coupling nuts. Clean glass by drawing a cloth, dampened with soap and water, through the glass. Replace by reversing procedure. If glass gauge washers are worn, replace before reinstalling glass gauge.

f. Burner maintenance should be in accordance with procedure in TM 8–615, Gasoline Stoves and Burners.

g. Repair of valves and steam trap is covered in paragraph 51.

h. Replacement of door gasket and valve knobs is covered in paragraph 51.

i. No repair of adjustment should be made on chamber gauge, jacket gauge, or safety valve.

j. Burner repair. Attempt no repairs on the gasoline burner, 9R10004 (fig. 5, part 5), until thoroughly familiar with repair procedure as outlined in TM 8–615, Gasoline Stoves and Burners.

70. AMERICAN MODEL. a. To replace damaged steam pressure gauge glass. Remove the small screws from the glass frame. Slip glass frame from the gauge. Insert glass and reassemble.

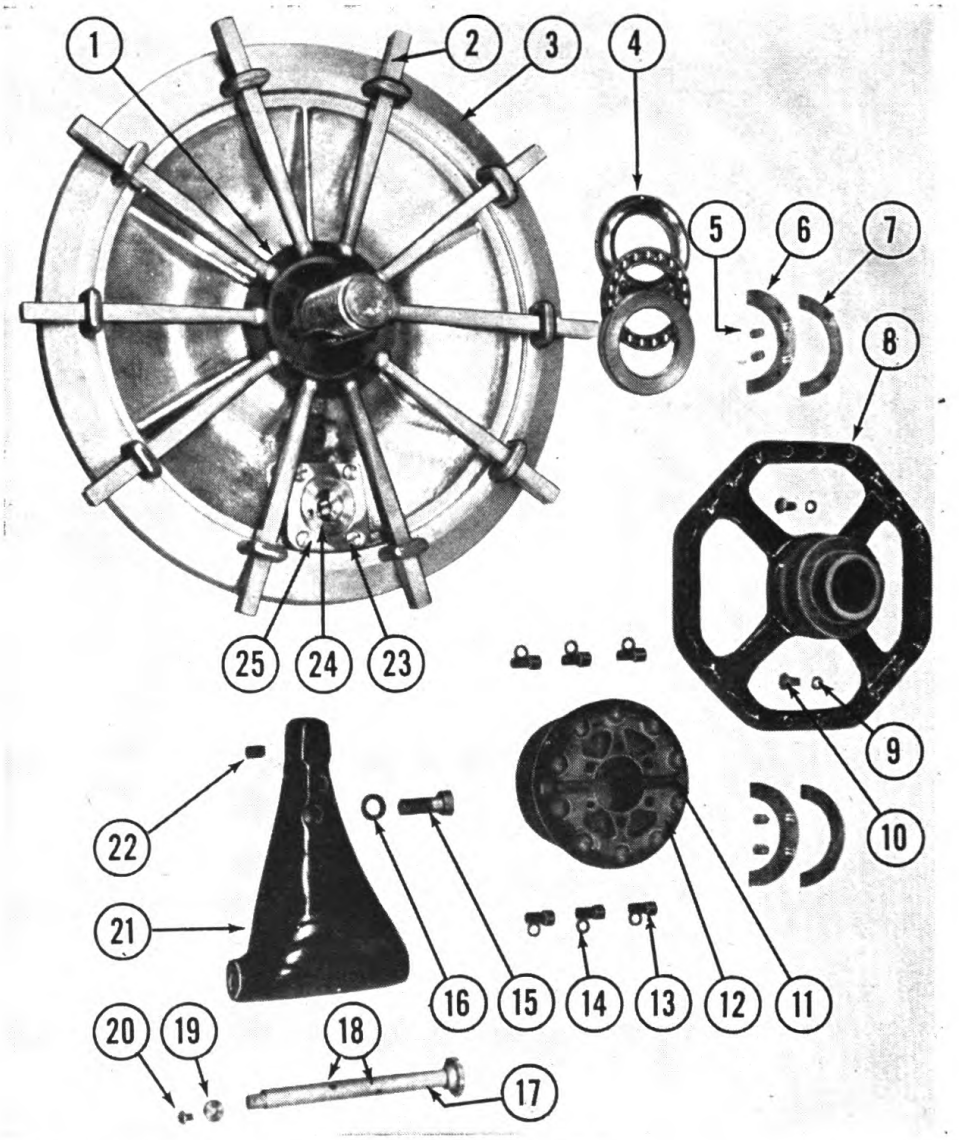
b. To replace damaged thermometer glass. Remove the small screws from the glass frame. Slip the thermometer glass frame from the thermometer. Insert new glass and reassemble.

c. To replace damaged glass gauge, 9R00310 (fig. 5, part 26), or glass gauge washers, 9R00500, follow same disassembly and assembly procedure as for cleaning.

d. Door adjustment. (1) To raise door, loosen door hinge screw, SR00623 (fig. 5, part 9 and fig. 48, part 15), and turn door adjusting screw, 9R00360 (fig. 48, part 22), clockwise, viewed from bottom of door hinge.

(2) To lower door, loosen door hinge screw and turn door adjusting screw counterclockwise where viewed from bottom of door hinge. Tighten door hinge screw.

(3) For lateral adjustment of door. Remove hinge pin locking screw on the top hinge bracket. This permits the movement of the hinge pin. The hinge pin, 9R00348 (fig. 48, part 17), is set off center in the hinge brackets. When the pin is turned, it moves the door either to the right or to the left. Insert a nail or other pointed instrument in one of the exposed hinge pin sockets (fig. 48, part 18). Slowly turn the hinge pin until door is centered in rim.



Med. Dept. No.	Nomenclature
1. 9R00354	Plate, Bottom Socket, Door.
2. 9R00334	Arm, Door.
3. 9R00340	Casting, Door.
4. 9R00336	Bearing, Ball Thrust, Door.
5. 9R00362	Spring, Door Thrust Ring.
6. 9R00352	Plate, Outer Thrust Ring, Door.
7. 9R00350	Plate, Inner Thrust Ring, Door.
8. 9R00366	Wheel, Hand, Door.
9. SR00229	Washer, Lock, Screw Size 1/4. For door thrust ring screw.
10. SR00619	Screw, 1/4–28 x 5/8 Inch, R.H.M., Brass. For door thrust ring.
11. 9R00364	Stop, Door.
12. 9R00356	Plate, Top Socket, Door.
13. SR00620	Screw, 5/16–18 x 5/8-Inch, Allen Head, Cap. For door socket plate.
14. SR00156	Washer, Lock, Screw Size 5/16. For socket plate and ball retainer screws.
15. SR00623	SCREW, 1/2–20 x 1 3/8-Inch, Fill. H., Cap. For door hinge.
16. SR00337	Washer, Screw Size 1/2. For hinge screw and hinge pin.
17. 9R00348	Pin and Knob, Door Hinge.
18.	Sockets in Door Hinge Pin.
19. SR00297	Washer, Screw Size 10. For hinge pin.
20. SR00617	Screw, 10–32 x 5/16-Inch, R.H.M., Brass. For door back cover and hinge pin.
21. 9R00344	Hinge, Door.
22. 9R00360	Screw, Door Adjusting.
23. SR00621	Screw, 5/16–24 x 1/2 Inch, Fill.H., Cap, Brass. For door ball retainer.
24. 9R00338	Casting, Brass, Hinge Ball.
25. 9R00358	Retainer, Ball, Door.

Figure 48. Door assembly for dressing and utensil sterilizer, item No. 9950000, manufactured by American Sterilizer Co.

CHAPTER 8

INSTRUMENT STERILIZERS

SECTION I. PREVENTIVE MAINTENANCE

71. DAILY. **a.** Add water to boiler.

b. Follow instructions for burner maintenance in TM 8–615, Gasoline Stoves and Burners.

c. Wash boiler, instrument tray, and cover and dry thoroughly.

d. Wipe entire exterior of the boiler casing and stand with cloth dampened with OIL, lubricating, preservative, medium (PM).

72. MONTHLY. Clean lime deposits from boiler.

SECTION II. TROUBLE SHOOTING

73. GENERAL. There will be no service problems on the instrument sterilizer because of simplicity of the construction.

SECTION III. MAINTENANCE OPERATION

74. BURNER REPAIR. **a.** Attempt no repair on the gasoline burner until thoroughly familiar with repair procedure as outlined in TM 8–615, Gasoline Stoves and Burners.

b. Burners for instrument sterilizer, 9955500, stove, two burner, gasoline for use with item No. 9952300.

9955000, stove, one burner, gasoline for item No. 9953000.
9R10350, stove assembly, gasoline, for item No. 9953500 and 9954000.

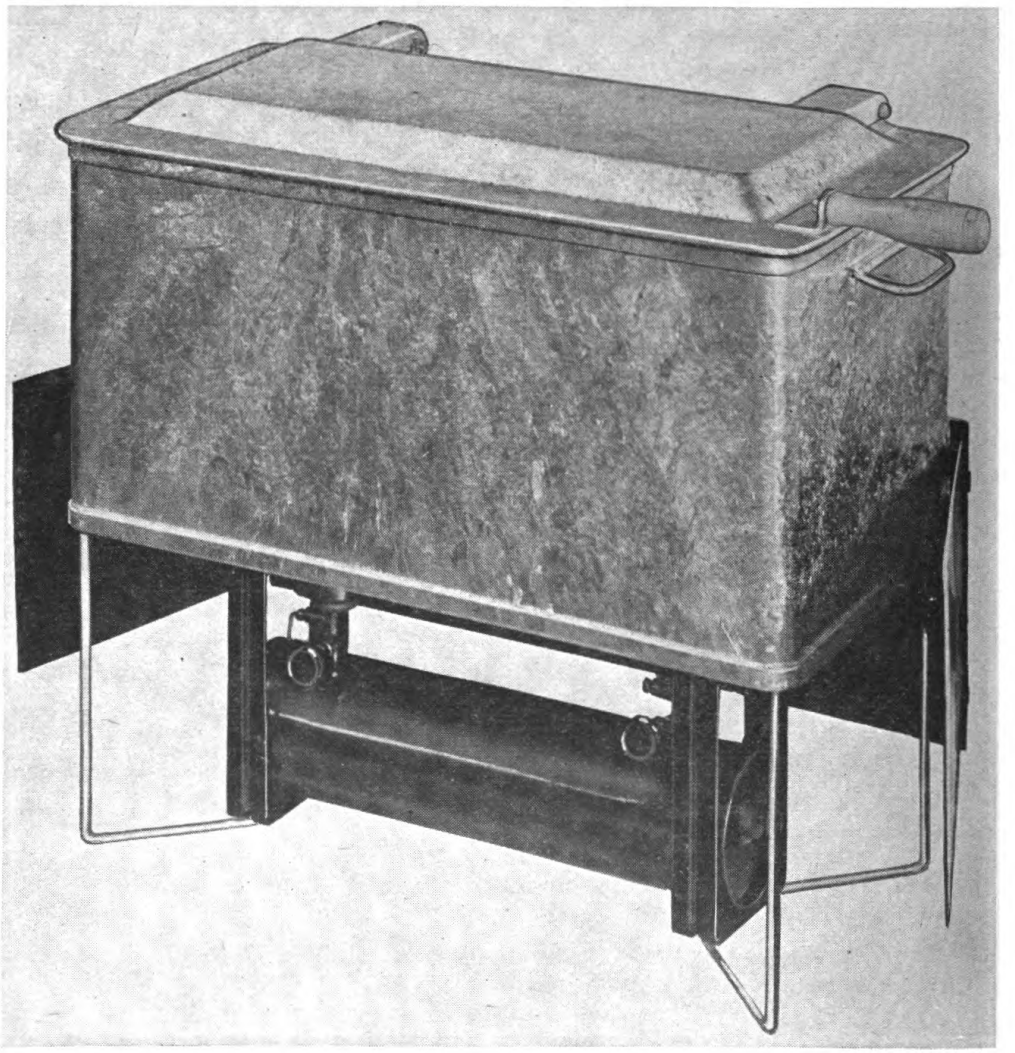


Figure 49. Instrument, Sterilizer, item No. 9952300.

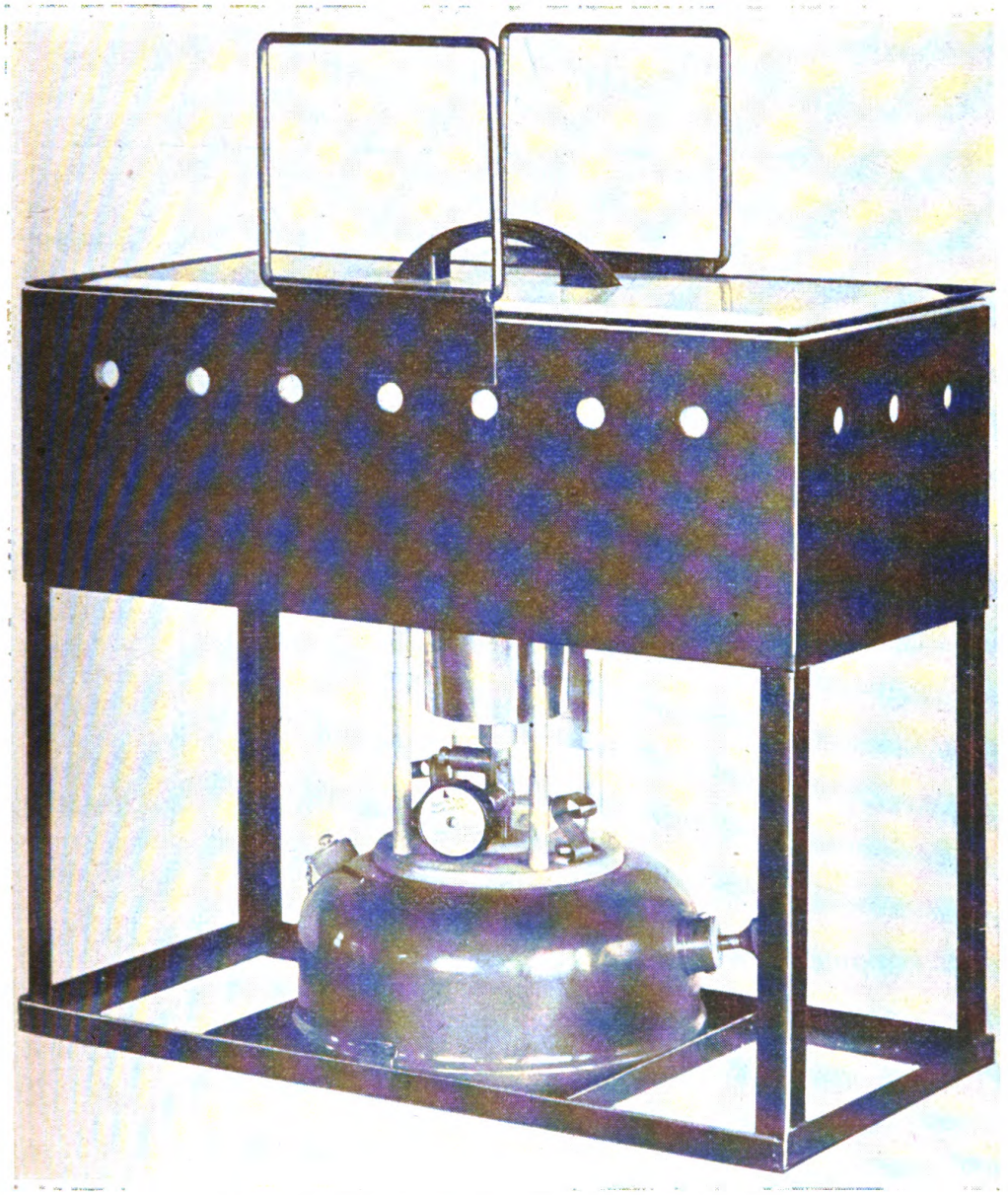


Figure 50. Instrument, Sterilizer, item No. 9953000.

APPENDIX I

SHIPMENT AND STORAGE

1. HORIZONTAL LABORATORY AUTOCLAVE, 4011028. a. Disassembling. To prepare the autoclave for shipment or storage, thoroughly drain the unit. Remove pipe cap, SR00610 (fig. 2, part 2), to drain boiler coil. Open the needle valve, 4R00014 (fig. 2, part 15), at the bottom of glass gauge to drain boiler coil and glass gauge. Tilt entire autoclave forward to insure the drainage of all moisture from the chamber. Remove the safety valve and the steam pressure gauge. Wrap both items so that they are well protected and suspend them from a protected part of the stand or place within the chamber.

b. Packing. It is very important that the burner is cool and the burner tank empty before packaging. Place burner in separate container if available. Secure burner, packaged or open, within the autoclave stand. Wedge the sterilizer door in either an open or closed position to prohibit its movement during transit. Place complete unit on the base of crate and securely fasten by means of leveling floor flanges, 4R00066 (fig. 1, part 1). Build crate around unit using approved packaging and crating methods and material.

2. HOSPITAL STERILIZER, 7910005. a. Disassembling and packing. To prepare the hospital sterilizer for shipment, first undo all connections to the hospital plumbing. Next remove all gauges, glass gauges, and safety valves. Coat these parts with OIL, lubricating, preservative, medium (PM).

b. Packing. Pack all parts from each unit in a separate box, and include in the crate with the unit. Crate shall be 3-way corner, cross braced, with 2x4 skids. Sterilizer base should be screwed to bottom of crate, and the unit should be braced, blocked, and padded. The top of each crate should be labeled as turning the crates over may be injurious to the equipment.

3. DRESSING AND UTENSIL STERILIZER, 9950000. a. Disassembling.

(1) Drain all water from unit. Open waste valve, 9R00304 (fig. 5, part 27). Tilt sterilizer in all directions until certain that all water has been drained.

(2) Remove the gasoline burner from horizontal brace section. To avoid loss of bolts and nuts replace them in burner bracket immediately.

(3) Empty gasoline tank. Be certain the burner heads have cooled before emptying tank. Never empty tank indoors or into a sewerage system.

(4) Remove horizontal brace section from stand legs. Immediately replace bolts and nuts in brace.

b. Packing. (1) Arrange sterilizer as shown in figure 3 for packing.

(2) Pack burner separately giving the burner heads adequate protection. Be positive the burner is cool and empty before packing. Place stand legs and burner within the chamber along with other accessories. Use sufficient packing material to protect the chamber from the parts and the parts from each other.

(3) Pack and crate entire unit using approved packaging and crating methods and material.

4. INSTRUMENT STERILIZERS, 9952300, 9953000, 9953528, and 9954028. **a.** Empty water from sterilizer and thoroughly dry the boiler and tray.

b. Empty gasoline from burner tank. Be certain the burner heads have cooled before emptying tank. Never empty a burner indoors or into a sewerage system. See TM 8–615, Gasoline Stoves and Burners.

c. On item No. 9952300 remove the lid handle to reduce over-all size of unit.

d. Use sufficient packing material to protect various parts of the unit. Be positive the burner is cool and empty before packing. A heavy carton or any wooden box of sufficient size will serve as the packing box.

APPENDIX II

LIST OF ALL SERVICE PARTS

SECTION I. 4011028 AUTOCLAVE, LABORATORY, HORIZONTAL, LEADED GASOLINE

Gotham Scientific Co.

Fig. No.	Medical Dept. No.	Nomenclature	Unit	Quantity
		Common Parts		
—	SR00111	SCREW, 8–32 x 1/4 INCH, R.H.M., 144 to PKG. For needle valve knob.	pkg.	
6, 7	SR00417	NUT, 10 x 24, HEX, 144 to PKG. For knobs	pkg.	
* 7	SR00498	GLASS, 2 5/8 INCH DIAMETER, 3/16 INCH THICK, 1/8 INCH BEVEL. For steam gauge.	ea.	1
* 1, 7	SR00505	VALVE, SAFETY, 1/2 INCH, 25 LB., COMPLETE. Assembly.	ea.	1
—	SR00602	NUT, 5 x 32, HEX, 144 to PKG. For tubing bracket	pkg.	
2	SR00603	SCREW, 5–40 x 1 3/8 INCH, R.H.M., 144 TO PKG. For boiler deflector.	pkg.	
—	SR00604	NUT, 5 x 40, SQUARE, 144 TO PKG. For boiler deflector.	pkg.	
1	SR00605	PLUG, PIPE, SOLID, SQUARE HEAD, 1/2 INCH	ea.	1
—	SR00606	SCREW, 5–32 x 1/4 INCH, R.H.M., 144 TO PKG. For tubing bracket.	pkg.	
1	SR00607	SCREW, 10–24 x 5/8 INCH, R.H.M., 144 TO PKG. For burner base and bracket.	pkg.	
2	SR00608	SCREW, 10 x 3/8 INCH, SHEET METAL, R.H., 144 TO PKG.	pkg.	
* 1, 7	SR00609	GAUGE, STEAM, 2 1/2 INCH, 30 LB. PRESSURE, WITH 17/32—18 x 3/8 INCH STUD. Assembly.	ea.	1
* 14	SR00508	VALVE, STEAM, JENKINS NO. ABTJI, 3/8 INCH, COMPLETE. Assembly; for supply.	ea.	1
14	SR00521	VALVE, STEAM, CHECK, 3/8 INCH, JENKINS NO. ABTVO, COMPLETE. Assembly; for chamber or jacket return.	ea.	2
* —	SR00522	DISC, STEAM, JENKINS 3/8 INCH CHECK VALVE.	ea.	2
* —	SR00574	PACKING, STRING, VALVE, 1/8 INCH	spool	1
16	SR00579	SETSCREW, 5/16–24 x 5/16 INCH, HEADLESS, ROUND PT., 100 TO PKG. Adjusting.	pkg.	
		Uncommon Parts		
* —	7R05752	GASKET, DOOR	ea.	1
* 15	7R05754	DIAPHRAGM, STEAM CONTROL VALVE	ea.	1
* 14	7R05756	THERMOMETER	ea.	1
* 14	7R05758	COVER AND GLASS, THERMOMETER	ea.	1
* 15	7R05766	KNOB	set	1
14, 15	7R05768	VALVE, STEAM CONTROL, COMPLETE. Assembly.	ea.	1
14	7R05770	VALVE, OPERATING, 4-WAY, COMPLETE. Assembly.	ea.	1
14	7R05772	FLANGE, LEVELING FLOOR	ea.	4
14	7R05774	STAND	ea.	1
14	7R05776	SHELL, OUTER	ea.	1
14	7R05778	VALVE, VACUUM RELEASE. For jacket	ea.	1
14, 16	7R05780	DOOR, COMPLETE. Assembly	ea.	1

* Parts keyed with an asterisk are spare parts; those not keyed are available on special purchase only. All requisitions for spare parts should be submitted in accordance with latest revision Army Service Forces Catalog MED–7.

SECTION II. 7910107 STERILIZER, DRESSING, PRESSURE TYPE, 20 BY 36-INCH STEAM

Scanlan-Morris Co.

Fig. No.	Medical Dept. No.	Nomenclature	Unit	Quantity
		Common Parts		
* 9	SR00029	VALVE DISK, JENKINS, 3/8 INCH, HARD. For steam valve.	ea.	1
* —	SR00030	VALVE DISC, JENKINS, 1/2 INCH, HARD. For steam valve.	ea.	2
20	SR00111	SCREW, 8–32 x 1/4 INCH, R.H.M., 144 TO PKG. For steam control valve cover.	pkg.	
* 9	SR00493	HOLDER, DISK, 3/8 INCH JENKINS VALVE	ea.	1
* —	SR00494	HOLDER, DISK, 1/2 INCH JENKINS VALVE	ea.	2
* 19	SR00496	GAGE, steam, 2 1/2 INCH, COMPOUND 30 LB. PRESSURE, 30 INCH VACUUM, WITH 13/32–27 x 3/8 INCH STUD. For chamber.	ea.	1
* 19	SR00497	GAGE, STEAM, 2 1/2 INCH, 30 LB. PRESSURE, WITH 13/32–27 x 3/8 INCH STUD. For jacket.	ea.	1
* —	SR00498	GLASS, 2 5/8 INCH DIAMETER, 3/16 INCH THICK, 1/8 INCH BEVEL. For chamber jacket gauge.	ea.	2
13, 19	SR00501	TRAP, STEAM, 1/2 INCH, 60 LBS., WEBSTER NO. 782–2, COMPLETE. Assembly; for chamber or jacket return.	ea.	2
* 13	SR00502	SEAT, GASKET, AND ELEMENT, 1/2 INCH, 60 LBS., WEBSTER NO. 782–2. For chamber or jacket return.	ea.	2
11, 19	SR00504	STRAINER, STEAM, 1/2 INCH, COMPLETE. Assembly.	ea.	1
* 19	SR00506	VALVE, SAFETY, 3/4 INCH, 22 LB., CONSOLIDATED NO. 1445, COMPLETE. Assembly.	ea.	1
*9, 19	SR00507	VALVE, STEAM, JENKINS NO. ABTJA, 3/8 INCH, COMPLETE. Assembly; for jacket to chamber.	ea.	1
* 19	SR00511	VALVE, STEAM, JENKINS NO. ABTJA, 1/2 INCH, COMPLETE. Assembly; for steam supply.	ea.	1
* 19	SR00512	VALVE, STEAM, JENKINS NO. ABTJI, 1/2 INCH, COMPLETE. Assembly; for vacuum.	ea.	1
10, 19	SR00523	VALVE, STEAM, CHECK, JENKINS NO. ABVCO, 1/2 INCH, COMPLETE. Assembly; for chamber or jacket return.	ea.	2
* 10	SR00524	DISK, STEAM, JENKINS 1/2 INCH CHECK VALVE.	ea.	2
* 9	SR00574	PACKING, STRING, VALVE, 1/8 INCH	spool	1
20	SR00582	NUT, 5/8 x 18, HEX, 50 TO PKG. For locking steam control valve.	pkg.	
		Uncommon Parts		
* —	7R05902	GASKET, DOOR	ea.	1
* 20	7R05904	BELLOWS, STEAM CONTROL VALVE	ea.	1
* 19	7R05906	THERMOMETER	ea.	1
* —	7R05908	COVER AND GLASS, THERMOMETER	ea.	1
*9, 20	7R05916	KNOB	set	1
19, 20	7R05918	VALVE, STEAM CONTROL, COMPLETE. Assembly.	ea.	1
19	7R05920	VALVE, VACUUM BREAK, COMPLETE. Assembly.	ea.	1
19	7R05922	DOOR, COMPLETE. Assembly	ea.	1
19	7R05924	STAND	ea.	1
19	7R05926	FLANGE, LEVELING FLOOR	ea.	4
19	7R05928	HINGE, DOOR	ea.	1
20	7R05930	NUT, REAR COUPLING, STEAM CONTROL VALVE.	ea.	1
* 20	7R05932	DIAPHRAGM, STEAM CONTROL VALVE	ea.	1
20	7R05934	SEAT, DIAPHRAGM, STEAM CONTROL VALVE	ea.	1

Fig. No.	Medical Dept. No.	Nomenclature	Unit	Quantity
		Uncommon Parts—Contd.		
20	7R05936	SPRING, PRESSURE COIL, STEAM CONTROL VALVE.	ea.	1
20	7R05938	COVER, STEAM CONTROL VALVE	ea.	1
20	7R05940	NUT, LOCK, STEAM CONTROL VALVE STEM	ea.	1
20	7R05942	YOKE, STEAM CONTROL VALVE	ea.	1
20	7R05944	NUT, ADJUSTING, STEAM CONTROL VALVE STEM.	ea.	1
20	7R05946	COLLAR, STOP, STEAM CONTROL VALVE	ea.	1
20	7R05948	NUT, ADJUSTING, STEAM CONTROL VALVE YOKE.	ea.	1
20	7R05950	BONNET, STEAM CONTROL VALVE	ea.	1
20	7R05952	BODY, STEAM CONTROL VALVE	ea.	1

* Parts keyed with an asterisk are spare parts; those not keyed are available on special purchase only. All requisitions for spare parts should be submitted in accordance with latest revision Army Service Forces Catalog MED–7.

SECTION III. 7910107 STERILIZER, DRESSING, PRESSURE TYPE, 20 BY 36-INCH STEAM

Wilmot-Castle Co.

Fig. No.	Medical Dept. No.	Nomenclature	Unit	Quantity
		Common Parts		
* 9	SR00029	VALVE DISC, JENKINS, 3/8 INCH, HARD. For steam valve.	ea.	3
* 9	SR00493	HOLDER, DISC, 3/8 INCH JENKINS VALVE	ea.	3
* 21	SR00496	GAGE, STEAM, 2½ INCH, COMPOUND 30 LB. PRESSURE, 30 INCH VACUUM, WITH 13/32–27 x 3/8 INCH STUD. For chamber.	ea.	1
* 21	SR00497	GAGE, STEAM, 2½ INCH, 30 LB. PRESSURE WITH 13/32–27 x 3/8 INCH STUD. For jacket.	ea.	1
* —	SR00498	GLASS, 2 5/8 INCH DIAMETER, 3/16 INCH THICK, 1/8 INCH BEVEL. For chamber or jacket gauge.	ea.	2
12, 21	SR00499	TRAP, STEAM, 3/8 INCH, 60 LBS., WEBSTER NO. 780–2, COMPLETE. Assembly; for jacket return.	ea.	1
* 12	SR00500	SEAT, GASKET, AND ELEMENT, 3/8 INCH, 60 LBS., WEBSTER NO. 780–2. For jacket return.	ea.	1
13, 21	SR00501	TRAP, STEAM, ½ INCH, 60 LBS., WEBSTER NO. 782–2, COMPLETE. Assembly; for chamber return.	ea.	1
* 13	SR00502	SEAT, GASKET, AND ELEMENT, ½ INCH, 60 LBS., WEBSTER NO. 782–2. For chamber return.	ea.	1
—	SR00503	STRAINER, STEAM, 3/8 INCH, COMPLETE. Assembly.	ea.	1
* 21	SR00505	VALVE, SAFETY, ½ INCH, 25 LB., COMPLETE. Assembly.	ea.	1
* 21	SR00509	VALVE, STEAM, JENKINS NO. ABTJK, 3/8 INCH, COMPLETE. Assembly; jacket to chamber or vent.	ea.	2
* 21	SR00510	VALVE, STEAM, JENKINS NO. ABTJL, 3/8 INCH, COMPLETE. Assembly; for steam supply.	ea.	1
21	SR00521	VALVE, STEAM, CHECK, 3/8 INCH, JENKINS NO. ABTVO, COMPLETE. Assembly; for jacket return.	ea.	1
* —	SR00522	DISK, STEAM, JENKINS 3/8 INCH CHECK VALVE	ea.	1
10	SR00523	VALVE, STEAM, CHECK, JENKINS NO. ABVCO, ½ INCH, COMPLETE. Assembly; for chamber return.	ea.	1

Fig. No.	Medical Dept. No.	Nomenclature	Unit	Quantity
		Common Parts—Contd.		
* 10	SR00524	DISC, STEAM, JENKINS ½ INCH CHECK VALVE.	ea.	1
* —	SR00572	PACKING, STRING, VALVE, ⅛ INCH.....	spool	1
22	SR00584	NUT, ⅜ x 24, HEX, 100 TO PKG. For steam control valve pusher stud and rim.	pkg.	
22	SR00585	BOLT, ⅜–24 x 1⅜ INCH, HEX H.M., 50 TO PKG. For steam control valve rim.	pkg.	
		Uncommon Parts		
* —	7R06052	GASKET, DOOR.....	ea.	1
* 22	7R06054	DIAPHRAGM, STEAM CONTROL VALVE.....	ea.	1
* 22	7R06056	WASHER, DIAPHRAGM.....	ea.	1
* 21	7R06058	THERMOMETER.....	ea.	1
* —	7R06068	KNOB.....	ea.	4
21, 22	7R06070	VALVE, STEAM CONTROL, COMPLETE. Assembly.	ea.	1
21	7R06072	FLANGE, LEVELING FLOOR.....	ea.	4
21	7R06074	STAND.....	ea.	1
21	7R06076	SHELL, OUTER.....	ea.	1
21	7R06078	DOOR, COMPLETE. Assembly.....	ea.	1
—	7R06080	HINGE, DOOR.....	ea.	1
22	7R06082	HANDLE, STEAM CONTROL VALVE.....	ea.	1
22	7R06084	CAP, NUT, STEAM CONTROL VALVE.....	ea.	1
22	7R06086	STOP, 22 LBS., STEAM CONTROL VALVE.....	ea.	1
22	7R06088	STOP, 15 LBS., STEAM CONTROL VALVE.....	ea.	1
22	7R06090	SCREW, ADJUSTING, STEAM CONTROL VALVE.	ea.	1
22	7R06092	CHAMBER, SPRING, STEAM CONTROL VALVE..	ea.	1
22	7R06094	SEAT, SPRING, STEAM CONTROL VALVE.....	ea.	1
22	7R06096	SPRING, PRESSURE COIL, STEAM CONTROL VALVE.	ea.	1
22	7R06098	STUD, PUSHER, STEAM CONTROL VALVE.....	ea.	1
22	7R06100	ARM, ROCKER, STEAM CONTROL VALVE.....	ea.	1

* Parts keyed with an asterisk are spare parts; those not keyed are available on special purchase only. All requisitions for spare parts should be submitted in accordance with latest revision Army Service Forces Catalog MED–7.

SECTION IV. 7910107 STERILIZER, DRESSING, PRESSURE TYPE, 20 BY 36-INCH STEAM

Hospital Supply Co.

Fig. No.	Medical Dept. No.	Nomenclature	Unit	Quantity
		Common Parts		
* —	SR00030	VALVE DISK, JENKINS, ½ INCH, HARD. For steam valve.	ea.	1
18	SR00422	NUT, 5/16 x 18, HEX, 144 TO PKG. Steam control valve rim.	pkg.	
* —	SR00494	HOLDER, DISC, ½ INCH JENKINS VALVE.....	ea.	1
* 17	SR00496	GAUGE, STEAM, 2½ INCH, COMPOUND 30 LB.	ea.	1
		PRESSURE, 30 INCH VACUUM, WITH 13/32–27 x ⅜ INCH STUD. For chamber.	ea.	1
* 17	SR00497	GAUGE, STEAM, 2½ INCH, 30 LB. PRESSURE, WITH 13/32–27 x ⅜ INCH STUD. For jacket.	ea.	1
* —	SR00498	GLASS, 2⅝ INCH DIAMETER, 3/16 INCH THICK, ⅛ INCH BEVEL. For jacket or chamber.	ea.	2

Fig. No.	Medical Dept. No.	Nomenclature	Unit	Quantity
		Common Parts—Contd.		
12, 17	SR00499	TRAP, STEAM, ⅜ INCH, 60 LBS., WEBSTER NO. 780–2, COMPLETE. Assembly; for chamber return.	ea.	1
* 12	SR00500	SEAT, GASKET, and ELEMENT, ⅜ INCH, 60 LBS., WEBSTER NO. 780–2. For chamber return.	ea.	1
13, 17	SR00501	TRAP, STEAM, ½ INCH, 60 LBS., WEBSTER NO. 782–2, COMPLETE. Assembly; for jacket return.	ea.	1
* 13	SR00502	SEAT, GASKET, AND ELEMENT, ½ INCH, 60 LBS., WEBSTER, NO. 782–2. For jacket return.	ea.	1
11	SR00504	STRAINER, STEAM, ½ INCH, COMPLETE. Assembly.	ea.	1
* 17	SR00505	VALVE, SAFETY, ½ INCH, 25 LB., COMPLETE. Assembly.	ea.	1
*B—	SR00508	VALVE, STEAM, JENKINS NO. ABTJI, ⅜ INCH, COMPLETE. Assembly; jacket to chamber.	ea.	1
* 17	SR00512	VALVE, STEAM, JENKINS NO. ABTJI, ½ INCH, COMPLETE. Assembly; for steam supply and vent.	ea.	2
—	SR00521	VALVE, STEAM, CHECK, ⅜ INCH, JENKINS NO. ABTVO, COMPLETE. Assembly; for chamber return.	ea.	1
* —	SR00522	DISK, STEAM, JENKINS ⅜ INCH CHECK VALVE.	ea.	1
10, 17	SR00523	VALVE, STEAM, CHECK, JENKINS NO. ABVCO, ½ INCH, COMPLETE. Assembly; for jacket return.	ea.	1
* 10	SR00524	DISK, STEAM, JENKINS ½ INCH CHECK VALVE.	ea.	1
* —	SR00574	PACKING, STRING, VALVE, ⅛ INCH.....	spool	1
18	SR00580	NUT, CAP, ¼ x 20, HEX, 100 TO PKG. For steam control valve.	pkg.	
18	SR00581	BOLT, 5/16–18 x ⅞ INCH, HEX, H.M., 50 TO PKG. Steam control valve rim.	pkg.	
		Uncommon Parts		
* —	7R05602	GASKET, DOOR, ½ x 11/16 INCH. For galvanized....	ea.	1
* —	7R05603	GASKET, DOOR, 5/16 x 5/16 INCH. For brass.....	ea.	0
* 18	7R05604	DIAPHRAGM, STEAM CONTROL VALVE.....	ea.	1
* 18	7R05606	WASHER, DIAPHRAGM.....	ea.	1
* 17	7R05608	THERMOMETER.....	ea.	1
* —	7R05618	KNOB.....	set	1
B 17	7R05620	VALVE, operating, 4-WAY, COMPLETE. Assembly..	ea.	1
17, 18	7R05622	VALVE, STEAM CONTROL, COMPLETE. Assembly	ea.	1
17	7R05624	FLANGE, LEVELING FLOOR.....	ea.	4
17	7R05626	STAND.....	ea.	1
—	7R05628	STRAINER, STEAM, ½ INCH, COMPLETE. Assembly; for jacket return.	ea.	1
—	7R05630	FILTER, AIR, COMPLETE. Assembly.....	ea.	1
17	7R05632	SHELL, OUTER.....	ea.	1
17	7R05634	DOOR, COMPLETE. Assembly.....	ea.	1
17	7R05636	HINGE, DOOR.....	ea.	1
18	7R05638	STEM, HANDLE, STEAM CONTROL VALVE.....	ea.	1
18	7R05640	HANDLE, STEAM CONTROL VALVE.....	ea.	1
18	7R05642	DIAL, STEAM CONTROL VALVE.....	ea.	1
18	7R05644	CHAMBER, SPRING, STEAM CONTROL VALVE..	ea.	1
18	7R05646	PLATE, DIAPHRAGM, STEAM CONTROL VALVE.	ea.	1
18	7R05648	STEM, STEAM CONTROL VALVE.....	ea.	1
18	7R05650	DISK, STEAM CONTROL VALVE.....	ea.	1
18	7R05652	HOLDER, DISK, STEAM CONTROL VALVE.....	ea.	1
18	7R05654	PLUG, REAR, STEAM CONTROL VALVE.....	ea.	1
17	7R05656	BOLT, DOOR HINGE.....	ea.	4

"B" These parts on some models only.

* Parts keyed with an asterisk are spare parts; those not keyed are available on special purchase only. All requisitions for spare parts should be submitted in accordance with latest revision Army Service Forces Catalog MED–7.

SECTION V. 7910240 STERILIZER, WATER, PRESSURE TYPE, 25-GALLON, STEAM

American Sterilizer Co.

Fig. No.	Medical Dept. No.	Nomenclature	Unit	Quantity
		Common Parts		
* 9	SR00029	VALVE DISK, JENKINS, ⅜ INCH, HARD. For steam valve.	ea.	2
* —	SR00032	VALVE DISK, JENKINS, ⅜ INCH, SOFT. For water cooling valve.	ea.	1
* —	SR00033	VALVE DISK, JENKINS, ½ INCH, SOFT. For water waste valve.	ea.	2
* 9	SR00493	HOLDER, DISK, ⅜ INCH JENKINS VALVE.....	ea.	3
* —	SR00494	HOLDER, DISK, ½ INCH JENKINS VALVE.....	ea.	2
12, 23	SR00499	TRAP, STEAM, ⅜ INCH, 60 LBS., WEBSTER NO. 780–2, COMPLETE. Assembly; for return or filter.	ea.	4
* 12	SR00500	SEAT, GASKET, AND ELEMENT, ⅜ INCH, 60 LBS., WEBSTER NO. 780–2. For return or filter.	ea.	4
—	SR00503	STRAINER, STEAM, ⅜ INCH, COMPLETE. Assembly.	ea.	1
* 23	SR00505	VALVE, SAFETY, ½ INCH, 25 LBS., COMPLETE. Assembly.	ea.	2
* 23	SR00508	VALVE, STEAM, JENKINS NO. ABTJI, ⅜ INCH, COMPLETE. Assembly; for supply.	ea.	2
* 23	SR00515	VALVE, WATER, JENKINS NO. ABTJK, ⅜ INCH, COMPLETE. Assembly; for water cooling.	ea.	1
23	SR00517	VALVE, WATER, JENKINS NO. ABTJI, ½ INCH, COMPLETE. Assembly; for water waste.	ea.	2
23	SR00521	VALVE, STEAM, CHECK, ⅜ INCH, JENKINS NO. ABTVO, COMPLETE. Assembly.	ea.	2
* —	SR00522	DISK, STEAM, JENKINS ⅜ INCH CHECK VALVE.	ea.	2
* —	SR00574	PACKING, STRING, VALVE, ⅛ INCH.....	spool	2
		Uncommon Parts		
*A15	7R05754	DIAPHRAGM, STEAM CONTROL VALVE.....	ea.	2
A 23	7R05772	FLANGE, LEVELING FLOOR.....	ea.	4
A 15	7R05784	NUT, INDICATOR, STEAM CONTROL VALVE....	ea.	2
A 15	7R05786	SCALE, PRESSURE ADJUSTMENT, STEAM CONTROL VALVE.	ea.	2
A 15	7R05788	NUT, COUPLING, STEAM CONTROL VALVE....	ea.	2
A 15	7R05790	COVER, STEAM CONTROL VALVE.....	ea.	2
A 15	7R05792	SPRING, PRESSURE COIL, STEAM CONTROL VALVE.	ea.	2
* —	7R06504	GASKET, TANK.....	ea.	2
* 23	7R06506	GLASS GAUGE.....	ea.	2
* —	7R06508	WASHER, GLASS GAUGE.....	ea.	4
* 23	7R06512	THERMOMETER.....	ea.	2
* 24	7R06514	DISK, FILTRENE, 48 IN BOX. For water filter....	box	6
* 24	7R06516	GASKET, FILTER DOOR.....	ea.	2
* 24	7R06518	GASKET, INNER, FILTER GLASS.....	ea.	2
* 24	7R06520	GASKET, OUTER, FILTER GLASS.....	ea.	2
* 24	7R06522	GLASS, FILTER DOOR.....	ea.	2
* 24	7R06526	KNOB.....	set	1
23	7R06528	VALVE, DRAW OFF, COLD, COMPLETE. Assembly.	ea.	1
23	7R06530	VALVE, DRAW OFF, HOT, COMPLETE. Assembly.	ea.	1
* 23	7R06532	VALVE, WATER SUPPLY, 2 WAY, COMPLETE. Assembly.	ea.	2
15, 23	7R06534	VALVE, STEAM CONTROL, COMPLETE. Assembly.	ea.	2
23, 24	7R06536	FILTER, WATER, COMPLETE. Assemby.....	ea.	2
23	7R06538	STAND.....	ea.	1
23	7R06540	PAN, DRIP.....	ea.	2
—	7R06542	TANK, 25 GALLON.....	ea.	2

Fig. No.	Medical Dept. No.	Nomenclature	Unit	Quantity
		Uncommon Parts—Contd.		
15	7R06544	NUT, ADJUSTING, STEAM CONTROL VALVE....	ea.	2
24	7R06546	DOOR, FILTER.....	ea.	2
24	7R06548	FRAME, GLASS, FILTER DOOR.....	ea.	2
24	7R06550	ELEMENT, FILTER, MONEL METAL.....	ea.	2

"A" These parts are also used in Medical Department Item No. 7910107 manufactured by American Sterilizer Co.

* Parts keyed with an asterisk are spare parts; those not keyed are available on special purchase only. All requisitions for spare parts should be submitted in accordance with latest revision Army Service Forces Catalog MED–7.

SECTION VI. 7910240 STERILIZER, WATER, PRESSURE TYPE, 25-GALLON, STEAM

Scanlan-Morris Co.

Fig. No.	Medical Dept. No.	Nomenclature	Unit	Quantity
		Common Parts		
* —	SR00030	VALVE DISK, JENKINS, ½ INCH, HARD. For steam supply valve.	ea.	2
* —	SR00032	VALVE DISK, JENKINS, ⅜ INCH, SOFT. For supply or filter valve.	ea.	4
* —	SR00033	VALVE DISK, JENKINS, ½ INCH, SOFT. For waste or cooling valve.	ea.	3
29	SR00111	SCREW, 8–32 x ¼ INCH, R.H.M. For steam control valve cover.	ea.	8
* 31	SR00487	ELEMENT, FILTERING, FULFLO.....	ea.	2
* —	SR00493	HOLDER, DISK, ⅜ INCH JENKINS VALVE.....	ea.	4
* —	SR00494	HOLDER, DISK, ½ INCH JENKINS VALVE.....	ea.	5
13, 28	SR00501	TRAP, STEAM, ½ INCH, 60 LBS., WEBSTER NO. 782–2, COMPLETE. Assembly.	ea.	2
* 13	SR00502	SEAT, GASKET, AND ELEMENT, ½ INCH, 60 LBS., WEBSTER NO. 782–2.	ea.	2
11	SR00504	STRAINER, STEAM, ½ INCH, COMPLETE. Assembly.	ea.	1
* 28	SR00506	VALVE, SAFETY, ¾ INCH, 22 LBS., COMPLETE. Assembly.	ea.	2
* 28	SR00511	VALVE, STEAM, JENKINS NO. ABTJA, ½ INCH, COMPLETE. Assembly; for supply.	ea.	2
* 28	SR00513	VALVE, WATER, JENKINS NO. ABTJA, ⅜ INCH, COMPLETE. Assembly; for supply.	ea.	2
* 28	SR00514	VALVE, WATER, JENKINS NO. ABTJI, ⅜ INCH, COMPLETE. Assembly; for filter.	ea.	2
* 28	SR00516	VALVE, WATER, JENKINS, NO. ABTJA, ½ INCH, COMPLETE. Assembly; for waste.	ea.	2
* 28	SR00517	VALVE, WATER, JENKINS NO. ABTJI, ½ INCH, COMPLETE. Assembly; for water cooling.	ea.	1
10	SR00523	VALVE, STEAM, CHECK, JENKINS NO. ABVCO, ½ INCH, COMPLETE. Assembly.	ea.	2
* 10	SR00524	DISC, STEAM, JENKINS ½ INCH CHECK VALVE.	ea.	2
* —	SR00574	PACKING, STRING, VALVE, ⅛ INCH.....	spool	1
		Uncommon Parts		
*A29	7R05904	BELLOWS, STEAM CONTROL VALVE.....	ea.	2
A28	7R05926	FLANGE, LEVELING FLOOR.....	ea.	4

Fig. No.	Medical Dept. No.	Nomenclature	Unit	Quantity
		Uncommon Parts—Contd.		
* —	7R06654	GASKET, TANK	ea.	2
* 28	7R06656	GAGE, GLASS	ea.	2
* —	7R06658	WASHER, GLASS GAUGE	ea.	2
* 28	7R06662	THERMOMETER	ea.	2
* 31	7R06666	GLASS, FILTER CYLINDER	ea.	2
* 31	7R06668	GASKET, FILTER CYLINDER	set	4
* 30	7R06670	ELEMENT, TRAP, MCGATH STERILGUARD	ea.	2
* —	7R06672	KNOB	set	1
28, 31	7R06674	FILTER, WATER, COMPLETE. Assembly	ea.	2
28, 30	7R06676	STERILIZER, GLASS GAGE, COMPLETE. Assembly.	ea.	2
28	7R06678	VALVE, DRAW OFF, COLD, COMPLETE. Assembly	ea.	1
28	7R06680	VALVE, DRAW OFF, HOT, COMPLETE. Assembly	ea.	1
28, 29	7R06682	VALVE, STEAM CONTROL, COMPLETE. Assembly	ea.	2
28	7R06684	STAND	ea.	1
28	7R06686	TANK, 25 GALLON	ea.	2
29	7R06688	STUD, REAR COUPLING, STEAM CONTROL VALVE.	ea.	2
29	7R06690	NUT, REAR COUPLING, STEAM CONTROL VALVE.	ea.	2
* 29	7R06692	DIAPHRAGM, STEAM CONTROL VALVE	ea.	2
29	7R06694	SEAT, DIAPHRAGM, STEAM CONTROL VALVE	ea.	2
29	7R06696	SPRING, PRESSURE COIL, STEAM CONTROL VALVE.	ea.	2
29	7R06698	COVER, STEAM CONTROL VALVE	ea.	2
29	7R06700	NUT, ADJUSTING, STEAM CONTROL VALVE	ea.	2
29	7R06702	YOKE, STEAM CONTROL VALVE	ea.	2
29	7R06704	BONNET, STEAM CONTROL VALVE	ea.	2
29	7R06706	BODY, STEAM CONTROL VALVE	ea.	2
30	7R06708	TUBE, INTERNAL, GLASS GAUGE	ea.	2
30	7R06710	HOLDER, LOWER, GLASS GAUGE	ea.	2
30	7R06712	STUD, BOTTOM COUPLING, LOWER GLASS GAUGE HOLDER.	ea.	2
30	7R06714	NUT, BOTTOM COUPLING LOWER GLASS GAUGE HOLDER.	ea.	2
30	7R06716	TUBE, CONNECTING, GLASS GAUGE STERILIZER.	ea.	2
30	7R06718	CAP, KNURLED TOP, GLASS GAUGE STERILIZER CYLINDER.	ea.	2
30	7R06720	CYLINDER, GLASS GAUGE STERILIZER	ea.	2
30	7R06722	SPACER, ELEMENT, GLASS GAUGE STERILIZER	ea.	2
31	7R06724	HANDLE, YOKE, WATER FILTER	ea.	2
31	7R06726	YOKE, WATER FILTER	ea.	2
31	7R06728	BASE, WATER FILTER	ea.	2
31	7R06730	CAP, WATER FILTER	ea.	2
31	7R06732	SPRING, PRESSURE COIL, WATER FILTER	ea.	2
31	7R06734	NUT, CAP, WATER FILTER	ea.	2

"A" These parts also used on Medical Department Item No. 7910107 manufactured by Scanlon-Morris Co.

* Parts keyed with an asterisk are spare parts; those not keyed are available on special purchase only. All requisitions for spare parts should be submitted in accordance with latest revision Army Service Forces Catalog MED–7.

SECTION VII. 7910240 STERILIZER, WATER, PRESSURE TYPE, 25-GALLON, STEAM

Wilmot Castle Co.

Fig. No.	Medical Dept. No.	Nomenclature	Unit	Quantity
		Common Parts		
* 9	SR00029	VALVE DISK, JENKINS, 3/8 INCH, HARD. For steam supply valve.	ea.	2
* —	SR00032	VALVE DISK, JENKINS, 3/8 INCH, SOFT. For water supply, filter or cooling valve.	ea.	3
33	SR00422	NUT, 5/16 x 18, HEX, 144 TO PKG. For locking steam control valve.	pkg.	
* 9	SR00493	HOLDER, DISK, 3/8 INCH JENKINS VALVE	ea.	5
12, 32	SR00499	TRAP, STEAM, 3/8 INCH, 60 LBS., WEBSTER NO. 780–2, COMPLETE. Assembly.	ea.	2
* 12	SR00500	SEAT, GASKET, AND ELEMENT, 3/8 INCH, 60 LBS., WEBSTER NO. 780–2.	ea.	2
—	SR00503	STRAINER, STEAM, 3/8 INCH, COMPLETE. Assembly.	ea.	1
* 32	SR00505	VALVE, SAFETY, 1/2 INCH, 25 LBS., COMPLETE. Assembly.	ea.	2
* 32	SR00509	VALVE, STEAM, JENKINS NO. ABTJK, 3/8 INCH, COMPLETE. Assembly; for steam supply.	ea.	2
* 32	SR00515	VALVE, WATER, JENKINS NO. ABTJK, 3/8 INCH, COMPLETE. Assembly; for cooling.	ea.	1
* 32	SR00518	VALVE, WATER, JENKINS NO. ABTJK, 1/2 INCH, COMPLETE. Assembly; for water waste.	ea.	2
—	SR00521	VALVE, STEAM, CHECK, 3/8 INCH, JENKINS NO. ABTVO, COMPLETE. Assembly.	ea.	2
* —	SR00522	DISK, STEAM, JENKINS 3/8 INCH CHECK VALVE	ea.	2
* —	SR00574	PACKING, STRING, VALVE, 1/8 INCH	spool	2
33	SR00583	BOLT, 1/4–20 x 1 1/4 INCH, HEX H.M., 144 TO PKG. For steam control valve rim.	pkg.	
		Uncommon Parts		
*A34	7R06068	KNOB	ea.	7
A 32	7R06072	FLANGE, LEVELING FLOOR	ea.	4
* —	7R06804	GASKET, TANK	ea.	2
* —	7R06806	GLASS, GAUGE	ea.	2
* 33	7R06810	DIAPHRAGM, STEAM CONTROL VALVE	ea.	12
* 33	7R06812	WASHER, DIAPHRAGM	ea.	6
* 32	7R06814	THERMOMETER	ea.	2
* 34	7R06816	ELEMENT, FILTERING, FULFLO	ea.	2
* 34	7R06818	GLASS, FILTER CYLINDER	ea.	2
* 34	7R06820	GASKET, FILTER CYLINDER	ea.	4
* 32	7R06822	GAGE, WATER LEVEL	ea.	2
32, 34	7R06826	FILTER, WATER, COMPLETE. Assembly	ea.	2
—	7R06828	VALVE, CHECK, WATER, COMPLETE. Assembly	ea.	2
32	7R06830	VALVE, DRAW OFF, COLD, COMPLETE. Assembly	ea.	1
32	7R06832	VALVE, DRAW OFF, HOT, COMPLETE. Assembly	ea.	1
32, 33	7R06834	VALVE, STEAM CONTROL COMPLETE. Assembly	ea.	2
* —	7R06836	DISK, CHECK VALVE, WATER	ea.	2
32	7R06838	FILTER, AIR, COMPLETE. Assembly	ea.	2
32	7R06840	STAND	ea.	1
32	7R06842	PAN, DRIP	ea.	2
32	7R06844	TANK, 25 GALLON	ea.	2
33	7R06846	SCREW, ADJUSTING, STEAM CONTROL VALVE	ea.	2
33	7R06848	CHAMBER, SPRING, STEAM CONTROL VALVE	ea.	2
33	7R06850	SEAT, SPRING, STEAM CONTROL VALVE	ea.	2
33	7R06852	SPRING, PRESSURE COIL, STEAM CONTROL VALVE.	ea.	2
33	7R06854	PLATE, DIAPHRAGM, STEAM CONTROL VALVE	ea.	2

Fig. No.	Medical Dept. No.	Nomenclature	Unit	Quantity
		Uncommon Parts—Contd.		
33	7R06856	BUTTON, PUSHER, STEAM CONTROL VALVE....	ea.	2
33	7R06858	SPACER, STEAM CONTROL VALVE.....	ea.	2
33	7R06860	PLATE, PUSHER, STEAM CONTROL VALVE.....	ea.	2
34	7R06862	POST, CENTER, WATER FILTER.....	ea.	2
34	7R06864	CAP, WATER FILTER.....	ea.	2
* 32	7R06866	VALVE, WATER SUPPLY, 3/8 INCH, WITH BLEEDER, COMPLETE. Assembly.	ea.	2

"A" These parts are also used on Medical Department Item No. 7910107 manufactured by Wilmot Castle Co.

* Parts keyed with an asterisk are spare parts; those not keyed are available on special purchase only. All requisitions for spare parts should be submitted in accordance with latest revision Army Service Forces Catalog MED–7.

SECTION VIII. 7910240 STERILIZER, WATER, PRESSURE TYPE, 25-GALLON, STEAM

Hospital Supply Co.

Fig. No.	Medical Dept. No.	Nomenclature	Unit	Quantity
		Common Parts		
* —	SR00030	VALVE DISK, JENKINS, 1/2 INCH, HARD. For steam valve.	ea.	2
* —	SR00033	VALVE DISC, JENKINS, 1/2 INCH, SOFT. For water valve.	ea.	5
26	SR00379	BOLT, 5/16–18 x 1 INCH, HEX H.M., 100 TO PKG. For steam control valve rim.	pkg.	
26	SR00422	NUT, 5/16 x 18, HEX, 144 TO PKG. For steam control valve rim.	pkg.	
* 27	SR00487	ELEMENT, FILTERING, FULFLO.....	ea.	2
* —	SR00494	HOLDER, DISK, 1/2 INCH JENKINS VALVE.....	ea.	7
13	SR00501	TRAP, STEAM, 1/2 INCH, 60 LBS., WEBSTER NO. 782–2, COMPLETE. Assembly.	ea.	2
* 13	SR00502	SEAT, GASKET, AND ELEMENT, 1/2 INCH, 60 LBS., WEBSTER NO. 782–2.	ea.	2
11	SR00504	STRAINER, STEAM, 1/2 INCH, COMPLETE. Assembly.	ea.	1
* 25	SR00505	VALVE, SAFETY, 1/2 INCH, 25 LB., COMPLETE. Assembly.	ea.	2
* 25	SR00512	VALVE, STEAM, JENKINS NO. ABTJI, 1/2 INCH, COMPLETE. Assembly; for supply.	ea.	2
* 25	SR00517	VALVE, WATER, JENKINS NO ABTJI, 1/2 INCH, COMPLETE. Assembly; for water cooling.	ea.	1
* 25	SR00518	VALVE, WATER, JENKINS NO. ABTJK, 1/2 INCH, COMPLETE. Assembly; for filter to tank or waste.	ea.	4
10	SR00523	VALVE, STEAM, CHECK, JENKINS NO. ABVCO, 1/2 INCH, COMPLETE. Assembly.	ea.	2
* 10	SR00524	DISC, STEAM, JENKINS 1/2 INCH CHECK VALVE.	ea.	2
26	SR00526	NUT, 3/8 x 16, HEX, 100 TO PKG. For locking steam control valve.	pkg.	
* —	SR00574	PACKING, STRING, VALVE, 1/8 INCH.....	spool	2
		Uncommon Parts		
*A26	7R05604	DIAPHRAGM, STEAM CONTROL VALVE.....	ea.	2
*A26	7R05606	WASHER, DIAPHRAGM.....	ea.	2
* —	7R06354	GASKET, TANK.....	ea.	2

Fig. No.	Medical Dept. No.	Nomenclature	Unit	Quantity
		Uncommon Parts—Contd.		
* 25	7R06356	GAGE, GLASS	ea.	2
* —	7R06358	WASHER, GLASS GAUGE	ea.	2
* 25	7R06364	THERMOMETER	ea.	2
* 27	7R06368	GASKET, FILTER, CYLINDER	ea.	2
* —	7R06370	KNOB	set	1
25, 27	7R06372	FILTER, WATER, COMPLETE. Assembly	ea.	2
25, 26	7R06374	VALVE, STEAM CONTROL, COMPLETE. Assembly	ea.	2
* 25	7R06376	VALVE, WATER SUPPLY, WITH BLEEDER, COMPLETE. Assembly.	ea.	2
25	7R06378	VALVE, DRAW OFF, COLD, COMPLETE. Assembly	ea.	1
25	7R06380	VALVE, DRAW OFF, HOT, COMPLETE. Assembly	ea.	1
* —	7R06382	DISK, DRAW OFF VALVE	ea.	2
27	7R06384	CYLINDER, WATER FILTER	ea.	2
* —	7R06386	DISK, VALVE, WATER SUPPLY WITH BLEEDER	ea.	2
25	7R06388	FILTER, AIR, COMPLETE. Assembly	ea.	2
25	7R06390	TANK, 25 GALLON	ea.	2
26	7R06392	CAP, STEAM CONTROL VALVE	ea.	2
26	7R06394	SCREW, ADJUSTING, STEAM CONTROL VALVE	ea.	2
26	7R06396	CHAMBER, SPRING, STEAM CINTROL VALVE	ea.	2
26	7R06398	PLATE, DIAPHRAGM, STEAM CONTROL VALVE	ea.	2
26	7R06400	STEM, STEAM CONTROL VALVE	ea.	2
* 26	7R06402	DISK, STEAM CONTROL VALVE	ea.	2
26	7R06404	PLUG, REAR, STEAM CONTROL VALVE	ea.	2
27	7R06406	SPRING, PRESSURE COIL, WATER FILTER	ea.	2
27	7R06408	SEAT, TOP, ELEMENT, WATER FILTER	ea.	2
27	7R06410	SEAT, BOTTOM ELEMENT, WATER FILTER	ea.	2
27	7R06412	RING, LOCK, WATER FILTER	ea.	2

"A" These parts also used on Medical Department Item No. 7910107 manufactured by Hospital Supply Co.

* Parts keyed with an asterisk are spare parts; those not keyed are available on special purchase only. All requisitions for spare parts should be submitted in accordance with latest revision Army Service Forces Catalog MED–7.

SECTION IX. 7910305 STERILIZER, UTENSIL, NONPRESSURE TYPE, 20 BY 20 BY 24-INCH, STEAM

American Sterilizer Co.

Fig. No.	Medical Dept. No.	Nomenclature	Unit	Quantity
		Common Parts		
* 9	SR00029	VALVE DISK, JENKINS, ⅜ INCH, HARD. For steam valve.	ea.	1
* —	SR00032	VALVE DISK, JENKINS, ⅜ INCH, SOFT. For water supply valve.	ea.	1
* —	SR00033	VALVE DISK, JENKINS, ½ INCH, SOFT. For water waste valve.	ea.	1
* —	SR00493	HOLDER, DISK, ⅜ INCH JENKINS VALVE	ea.	2
* —	SR00494	HOLDER, DISK, ½ INCH JENKINS VALVE	ea.	1
12	SR00499	TRAP, STEAM, ⅜ INCH, 60 LBS., WEBSTER NO. 780–2, COMPLETE. Assembly.	ea.	1
* 12	SR00500	SEAT, GASKET, AND ELEMENT, ⅜ INCH, 60 LBS., WEBSTER NO. 780–2.	ea.	1
—	SR00503	STRAINER, STEAM, ⅜ INCH, COMPLETE. Assembly.	ea.	1

Fig. No.	Medical Dept. No.	Nomenclature	Unit	Quantity
		Common Parts—Contd.		
* 35	SR00508	VALVE, STEAM, JENKINS NO. ABTJI, 3/8 INCH, COMPLETE. Assembly.	ea.	1
* 35	SR00514	VALVE, WATER, JENKINS NO. ABTJI, 3/8 INCH, COMPLETE. Assembly; for supply.	ea.	1
* 35	SR00517	VALVE, WATER, JENKINS NO. ABTJI, 1/2 INCH, COMPLETE. Assembly; for water waste.	ea.	1
—	SR00521	VALVE, STEAM, CHECK, 3/8 INCH, JENKINS NO. ABTVO, COMPLETE. Assembly.	ea.	1
* —	SR00522	DISK, STEAM, JENKINS 3/8 INCH CHECK VALVE.	ea.	1
* —	SR00574	PACKING, STRING, VALVE, 1/8 INCH.....	spool	1
		Uncommon Parts		
* —	7R07204	KNOB.....	set	1
* 35	7R07206	CHECK, LID, COMPLETE. Assembly.....	ea.	1
B 35	7R07208	VALVE, STEAM CONTROL, COMPLETE. Assembly.	ea.	1
35	7R07210	FLANGE, LEVELING FLOOR.....	ea.	4
35	7R07212	STAND.....	ea.	1
35	7R07214	BOILER.....	ea.	1
35	7R07216	LID.....	ea.	1
35	7R07218	CAP, KNURLED, LID CHECK.....	ea.	1

(B) These parts on some models only.

* Parts keyed with an asterisk are spare parts; those not keyed are available on special purchase only. All requisitions for spare parts should be submitted in accordance with latest revision Army Service Forces Catalog MED–7.

SECTION X. 7910305 STERILIZER, UTENSIL, NONPRESSURE TYPE, 20 BY 20 BY 24-INCH, STEAM

Scanlan-Morris Co.

Fig. No.	Medical Dept. No.	Nomenclature	Unit	Quantity
		Common Parts		
* —	SR00029	VALVE DISK, JENKINS, 3/8 INCH, HARD. For steam valve.	ea.	1
* —	SR00032	VALVE DISK, JENKINS, 3/8 INCH, SOFT. For water supply valve.	ea.	1
* —	SR00034	VALVE DISK, JENKINS, 3/4 INCH, SOFT. For water waste.	ea.	1
* —	SR00493	HOLDER, DISK, 3/8 INCH JENKINS VALVE.....	ea.	2
* —	SR00495	HOLDER, DISK, 3/4 INCH JENKINS VALVE.....	ea.	1
12, 41	SR00499	TRAP, STEAM, 3/8 INCH, 60 LBS., WEBSTER NO. 780–2, COMPLETE. Assembly.	ea.	1
* 12	SR00500	SEAT, GASKET, AND ELEMENT, 3/8 INCH, 60 LBS., WEBSTER NO. 780–2.	ea.	1
—	SR00503	STRAINER, STEAM, 3/8 INCH, COMPLETE. Assembly.	ea.	1
* 41	SR00508	VALVE, STEAM, JENKINS NO. ABTJI, 3/8 INCH, COMPLETE. Assembly.	ea.	1
* 41	SR00514	VALVE, WATER, JENKINS NO. ABTJI, 3/8 INCH, COMPLETE. Assembly; for supply.	ea.	1
* 41	SR00520	VALVE, WATER, JENKINS NO. ABTJH, 3/4 INCH, COMPLETE. Assembly; for water waste.	ea.	1

Fig. No.	Medical Dept. No.	Nomenclature	Unit	Quantity
		Uncommon Parts—Contd.		
41	SR00521	VALVE, STEAM, CHECK, ⅜ INCH, JENKINS NO. ABTVO, COMPLETE. Assembly.	ea.	1
* —	SR00522	DISK, STEAM, JENKINS ⅜ INCH CHECK VALVE.	ea.	1
* —	SR00574	PACKING, STRING, VALVE, ⅛ INCH	spool	1
		Uncommon Parts		
A 41	7R05926	FLANGE, LEVELING FLOOR	ea.	4
* —	7R07304	KNOB	set	1
* 41	7R07306	CHECK, LID, COMPLETE. Assembly	ea.	1
B —	7R07308	VALVE, STEAM CONTROL, COMPLETE. Assembly.	ea.	1
41	7R07310	STAND	ea.	1
41	7R07312	CAP, LID CHECK	ea.	1
41	7R07314	BOILER	ea.	1
41	7R07316	LID	ea.	1
—	7R07318	CYLINDER, LID CHECK	ea.	1
—	7R07320	PIN, HINGE, LID CHECK	ea.	1
—	7R07322	HOLDER, HINGE PIN, LID CHECK	ea.	1
* —	7R07324	SEAL, OIL, LID CHECK	ea.	1
—	7R07326	SCREW, OIL SEAL, LID CHECK	ea.	2
—	7R07328	ROD, PISTON, LID CHECK	ea.	1
* —	7R07330	PISTON, LID CHECK	ea.	1
—	7R07332	NUT, WING, ADJUSTING, LID CHECK	ea.	1

* Parts keyed with an asterisk are spare parts; those not keyed are available on special purchase only. All requisitions for spare parts should be submitted in accordance with latest revision Army Service Forces Catalog MED–7.

(A) These parts are also used on Medical Department Item No. 7910107 manufactured by Scanlon-Morris Co.

(B) These parts on some models only.

SECTION XI. 7910305 STERILIZER, UTENSIL, NONPRESSURE TYPE, 20 BY 20 BY 24-INCH, STEAM

Wilmot Castle Co.

Fig. No.	Medical Dept. No.	Nomenclature	Unit	Quantity
		Common Parts		
* 9	SR00029	VALVE DISK, JENKINS, ⅜ INCH, HARD. For steam valve.	ea.	1
* —	SR00033	VALVE DISK, JENKINS, ½ INCH, SOFT. For water waste valve.	ea.	1
* 9	SR00493	HOLDER, DISK, ⅜ INCH JENKINS VALVE	ea.	1
* —	SR00494	HOLDER, DISK, ½ INCH JENKINS VALVE	ea.	1
12	SR00499	TRAP, STEAM, ⅜ INCH, 60 LBS., WEBSTER NO. 780–2, COMPLETE. Assembly.	ea.	1
* 12	SR00500	SEAT, GASKET, AND ELEMENT, ⅜ INCH, 60 LBS., WEBSTER NO. 780–2.	ea.	1
—	SR00503	STRAINER, STEAM, ⅜ INCH, COMPLETE. Assembly.	ea.	1
* 44	SR00510	VALVE, STEAM, JENKINS NO. ABTJL, ⅜ INCH, COMPLETE. Assembly; for supply.	ea.	1
* 44	SR00519	VALVE, WATER, JENKINS NO. ABTJL, ½ INCH, COMPLETE. Assembly; for waste.	ea.	1
—	SR00521	VALVE, STEAM CHECK, ⅜ INCH, JENKINS NO. ABTVO, COMPLETE. Assembly.	ea.	1
* —	SR00522	DISK, STEAM, JENKINS ⅜ INCH CHECK VALVE.	ea.	1
* —	SR00574	PACKING, STRING, VALVE, ⅛ INCH	spool	1

Fig. No.	Medical Dept. No.	Nomenclature	Unit	Quantity
		Uncommon Parts		
*A—	7R06068	KNOB	ea.	3
A44	7R06072	FLANGE, LEVELING FLOOR	ea.	4
*A44	7R06870	VALVE, WATER SUPPLY, 3/8 INCH, WITH BLEEDER, COMPLETE. Assembly.	ea.	1
* 44	7R07406	LIFT, LID, COMPLETE. Assembly	ea.	1
B44	7R07408	VALVE, STEAM CONTROL, COMPLETE. Assembly.	ea.	1
* —	7R07410	GASKET, STEAM COIL	ea.	2
* —	7R07412	DISK, WATER SUPPLY VALVE, WITH BLEEDER.	ea.	1
44	7R07414	STAND	ea.	1
44	7R07416	BOILER	ea.	1
44	7R07418	LID	ea.	1
44	7R07420	CUP, OIL FILLING, LID LIFT	ea.	1
B47	7R07422	NUT, THERMAL BULB COUPLING, STEAM CONTROL VALVE.	ea.	1
B47	7R07424	CAP, ADJUSTING SCREW, STEAM CONTROL VALVE.	ea.	1
B47	7R07426	SCREW, ADJUSTING, STEAM CONTROL VALVE.	ea.	1

* Parts keyed with an asterisk are spare parts; those not keyed are available on special purchase only. All requisitions for spare parts should be submitted in accordance with latest revision Army Service Forces Catalog MED–7.

(A) 7R06068 and 7R06702 are also used on Medical Department Item No. 7910107 manufactured by Wilmot Castle Co. 7R06870 is also used on Medical Department Item No. 7910240 manufactured by Wilmot Castle Co.

(B) These parts on some models only.

SECTION XII. 7910305 STERILIZER, UTENSIL, NONPRESSURE TYPE, 20 BY 20 BY 24-INCH, STEAM

Hospital Supply Co.

Fig. No.	Medical Dept. No.	Nomenclature	Unit	Quantity
		Common Parts		
* 9	SR00029	VALVE DISK, JENKINS, 3/8 INCH, HARD. For steam valve.	ea.	1
* —	SR00034	VALVE DISK, JENKINS, 3/4 INCH, SOFT. For water waste.	ea.	1
* 9	SR00493	HOLDER, DISK, 3/8 INCH JENKINS VALVE	ea.	1
* —	SR00495	HOLDER, DISK, 3/4 INCH JENKINS VALVE	ea.	1
12, 37	SR00499	TRAP, STEAM, 3/8 INCH, 60 LBS., WEBSTER NO. 780–2, COMPLETE. Assembly.	ea.	1
* 12	SR00500	SEAT, GASKET, AND ELEMENT, 3/8 INCH, 60 LBS., WEBSTER NO, 780–2.	ea.	1
37	SR00503	STRAINER, STEAM, 3/8 INCH, COMPLETE. Assembly.	ea.	1
* 37	SR00508	VALVE, STEAM, JENKINS NO. ABTJI, 3/8 INCH, COMPLETE. Assembly.	ea.	1
* 37	SR00520	VALVE, WATER, JENKINS NO. ABTJH, 3/4 INCH, COMPLETE. Assembly; for water waste.	ea.	1
—	SR00521	VALVE, STEAM, CHECK, 3/8 INCH, JENKINS NO. ABTVO, COMPLETE. Assembly.	ea.	1
* —	SR00522	DISK, STEAM, JENKINS 3/8 INCH CHECK VALVE.	ea.	1
* —	SR00574	PACKING, STRING, VALVE, 1/8 INCH	spool	1

Fig. No.	Medical Dept. No.	Nomenclature	Unit	Quantity
		Uncommon Parts		
*A37	7R06376	VALVE, WATER SUPPLY, WITH BLEEDER, COMPLETE. Assembly.	ea.	1
*A—	7R06386	DISK, VALVE, WATER SUPPLY WITH BLEEDER	ea.	1
* —	7R07104	KNOB	set	1
* 37	7R07106	LIFT, LID, COMPLETE. Assembly	ea.	1
B37, 40	7R07108	VALVE, STEAM CONTROL, COMPLETE. Assembly.	ea.	1
37	7R07110	BOILER	ea.	1
37	7R07112	LID	ea.	1
—	7R07114	FLANGE, LEVELING FLOOR	ea.	4
—	7R07116	STAND	ea.	1
B 40	7R07118	NUT, LOCK, STEAM CONTROL VALVE	ea.	1
B 40	7R07120	TUBE, ADJUSTING, STEAM CONTROL VALVE	ea.	1

* Parts keyed with an asterisk are spare parts; those not keyed are available on special purchase only. All requisitions for spare parts should be submitted in accordance with latest revision Army Service Forces Catalog MED–7.

(A) These parts are also used on Medical Department Item No. 7910240 manufactured by Hospital Supply Co.

(B) These parts on some models only.

SECTION XIII. 7910427 STERILIZER, INSTRUMENT, NONPRESSURE TYPE, 10 BY 12 BY 22-INCH, STEAM, WITH STAND

American Sterilizer Co.

Fig. No.	Medical Dept. No.	Nomenclature	Unit	Quantity
		Common Parts		
* 9	SR00029	VALVE DISK, JENKINS, ⅜ INCH, HARD. For steam supply valve.	ea.	1
* —	SR00032	VALVE DISK, JENKINS, ⅜ INCH, SOFT. For water supply valve.	ea.	1
* —	SR00033	VALVE DISK, JENKINS, ½ INCH, SOFT. For water waste valve.	ea.	1
* 9	SR00493	HOLDER, DISK, ⅜ INCH JENKINS VALVE	ea.	2
* —	SR00494	HOLDER, DISK, ½ INCH JENKINS VALVE	ea.	1
12, 36	SR00499	TRAP, STEAM, ⅜ INCH, 60 LBS., WEBSTER NO. 780–2, COMPLETE. Assembly.	ea.	1
* 12	SR00500	SEAT, GASKET, AND ELEMENT, ⅜ INCH, 60 LBS., WEBSTER NO. 780–2.	ea.	1
36	SR00503	STRAINER, STEAM, ⅜ INCH, COMPLETE. Assembly.	ea.	1
* 36	SR00508	VALVE, STEAM, JENKINS NO. ABTJI, ⅜ INCH, COMPLETE. Assembly; for supply.	ea.	1
* 36	SR00514	VALVE, WATER, JENKINS NO. ABTJI, ⅜ INCH, COMPLETE. Assembly; for supply.	ea.	1
* 36	SR00517	VALVE, WATER, JENKINS NO. ABTJI, ½ INCH, COMPLETE. Assembly; for waste.	ea.	1
—	SR00521	VALVE, STEAM, CHECK, ⅜ INCH, JENKINS NO. ABTVO, COMPLETE. Assembly.	ea.	1
* —	SR00522	DISK, STEAM, JENKINS ⅜ INCH CHECK VALVE	ea.	1
* —	SR00574	PACKING, STRING, VALVE, ⅛ INCH	spool	1
		Uncommon Parts		
*A—	7R07204	KNOB	set	1
AB36	7R07208	VALVE, STEAM CONTROL, COMPLETE. Assembly	ea.	1
* 36	7R07706	CHECK, LID, COMPLETE. Assembly	ea.	1

Fig. No.	Medical Dept. No.	Nomenclature	Unit	Quantity
		Uncommon Parts—Contd.		
36	7R07708	FLANGE, LEVELING FLOOR	ea.	4
36	7R07710	STAND	ea.	1
36	7R07712	BOILER	ea.	1
36	7R07714	LID	ea.	1
36	7R07716	CAP, KNURLED, LID CHECK	ea.	1

* Parts keyed with an asterisk are spare parts; those not keyed are available on special purchase only. All requisitions for spare parts should be submitted in accordance with latest revision Army Service Forces Catalog MED–7.

(A) These parts are also used on Medical Department Item No. 7910305 manufactured by American Sterilizer Co.

(B) These parts on some models only.

SECTION XIV. 7910427 STERILIZER, INSTRUMENT, NONPRESSURE TYPE, 10 BY 12 BY 22-INCH, STEAM, WITH STAND

Scanlan-Morris Co.

Fig. No.	Medical Dept. No.	Nomenclature	Unit	Quantity
		Common Parts		
* 9	SR00029	VALVE DISK, JENKINS, 3/8 INCH, HARD. For steam supply.	ea.	1
* —	SR00032	VALVE DISK, JENKINS, 3/8 INCH, SOFT. For water supply.	ea.	1
* —	SR00034	VALVE DISK, JENKINS, 3/4 INCH, SOFT. For waste.	ea.	1
43	SR00040	SCREW, 6–32 x 1/4 INCH, R.H.M., 144 TO PKG. For lid check oil seal.	pkg.	
* 9	SR00493	HOLDER, DISK, 3/8 INCH JENKINS VALVE	ea.	2
* —	SR00495	HOLDER, DISK, 3/4 INCH JENKINS VALVE	ea.	1
12, 42	SR00499	TRAP, STEAM, 3/8 INCH, 60 LBS., WEBSTER NO. 780–2, COMPLETE. Assembly.	ea.	1
* 12	SR00500	SEAT, GASKET, AND ELEMENT, 3/8 INCH, 60 LBS., WEBSTER NO. 780–2.	ea.	1
—	SR00503	STRAINER, STEAM, 3/8 INCH, COMPLETE. Assembly.	ea.	1
* 42	SR00508	VALVE, STEAM, JENKINS NO. ABTJI, 3/8 INCH, COMPLETE. Assembly; for supply.	ea.	1
* 42	SR00514	VALVE, WATER, JENKINS NO. ABTJI, 3/8 INCH, COMPLETE. Assembly; for supply.	ea.	1
* 42	SR00520	VALVE, WATER, JENKINS NO. ABTJH, 3/4 INCH, COMPLETE. Assembly; for waste.	ea.	1
42	SR00521	VALVE, STEAM, CHECK, 3/8 INCH, JENKINS NO. ABTVO, COMPLETE. Assembly.	ea.	1
* —	SR00522	DISK, STEAM, JENKINS 3/8 INCH CHECK VALVE	ea.	1
* —	SR00574	PACKING, STRING, VALVE, 1/8 INCH	spool	1
		Uncommon Parts		
A 42	7R05926	FLANGE, LEVELING FLOOR	ea.	4
*A—	7R07304	KNOB	set	1
AB—	7R07308	VALVE, STEAM CONTROL, COMPLETE. Assembly	ea.	1
*42, 43	7R07806	CHECK, LID, COMPLETE. Assembly	ea.	1
42	7R07808	STAND	ea.	1
42	7R07810	BOILER	ea.	1
42	7R07812	LID	ea.	1
42, 43	7R07814	CAP, LID CHECK	ea.	1

Fig. No.	Medical Dept. No.	Nomenclature	Unit	Quantity
		Uncommon Parts—Contd.		
43	7R07816	CYLINDER, LID CHECK	ea.	1
43	7R07818	PIN, HINGE, LID CHECK	ea.	1
43	7R07820	HOLDER, HINGE PIN, LID CHECK	ea.	1
* 43	7R07822	SEAL, OIL, LID CHECK	ea.	1
43	7R07824	ROD, PISTON, LID CHECK	ea.	1
* 43	7R07826	PISTON, LID CHECK	ea.	1
43	7R07828	NUT, WING, ADJUSTING, LID CHECK	ea.	1

* Parts keyed with an asterisk are spare parts; those not keyed are available on special purchase only. All requisitions for spare parts should be submitted in accordance with latest revision Army Service Forces Catalog MED–7.

(A) 7R05926 is also used on Medical Department Item No. 7910107 manufactured by Scanlan-Morris Co. 7R07304 and 7R07308 are also used on Medical Department Item No. 7910305 manufactured by Scanlan-Morris Co.

(B) These parts on some models only.

SECTION XV. 7910427 STERILIZER, INSTRUMENT, NONPRESSURE TYPE, 10 BY 12 BY 22-INCH, STEAM, WITH STAND

Wilmot Castle Co.

Fig. No.	Medical Dept. No.	Nomenclature	Unit	Quantity
		Common Parts		
* 9	SR00029	VALVE DISK, JENKINS, ⅜ INCH, HARD. For steam supply.	ea.	1
* —	SR00033	VALVE DISK, JENKINS, ½ INCH, SOFT. For water waste.	ea.	1
* 9	SR00493	HOLDER, DISK, ⅜ INCH JENKINS VALVE	ea.	1
* —	SR00494	HOLDER, DISK, ½ INCH JENKINS VALVE	ea.	1
12, 45	SR00499	TRAP, STEAM, ⅜ INCH, 60 LBS., WEBSTER NO. 780–2, COMPLETE. Assembly.	ea.	1
* 12	SR00500	SEAT, GASKET, AND ELEMENT, ⅜ INCH, 60 LBS., WEBSTER NO. 780–2.	ea.	1
—	SR00503	STRAINER, STEAM, ⅜ INCH, COMPLETE. Assembly.	ea.	1
* 45	SR00510	VALVE, STEAM, JENKINS NO. ABTJL, ⅜ INCH, COMPLETE. Assembly; for supply.	ea.	1
* 45	SR00519	VALVE, WATER, JENKINS NO. ABTJL, ½ INCH, COMPLETE. Assembly; for waste.	ea.	1
—	SR00521	VALVE, STEAM, CHECK, ⅜ INCH, JENKINS NO. ABTVO, COMPLETE. Assembly.	ea.	1
* —	SR00522	DISK, STEAM, JENKINS ⅜ INCH CHECK VALVE.	ea.	1
* —	SR00574	PACKING, STRING, VALVE, ⅛ INCH	spool	1
		Uncommon Parts		
*A—	7R06068	KNOB	ea.	3
A45	7R06072	FLANGE, LEVELING FLOOR	ea.	4
*A—	7R06870	VALVE, WATER SUPPLY, ⅜ INCH, WITH BLEEDER, COMPLETE. Assembly.	ea.	1
AB 45, 47	7R07408	VALVE, STEAM CONTROL, COMPLETE. Assembly.	ea.	1
*A—	7R07410	GASKET, STEAM COIL	ea.	2
*A—	7R07412	DISK, WATER SUPPLY VALVE WITH BLEEDER	ea.	1
AB47	7R07422	NUT, THERMAL BULB COUPLING, STEAM CONTROL VALVE	ea.	1

Fig. No.	Medical Dept. No.	Nomenclature	Unit	Quantity
		Uncommon Parts—Contd.		
AB47	7R07424	CAP, ADJUSTING SCREW, STEAM CONTROL VALVE.	ea.	1
AB47	7R07426	SCREW, ADJUSTING, STEAM CONTROL VALVE.	ea.	1
*45, 46	7R07906	CHECK, LID, COMPLETE. Assembly	ea.	1
45	7R07908	STAND	ea.	1
45	7R07910	CAP, LID CHECK	ea.	1
45	7R07912	BOILER	ea.	1
45	7R07914	LID	ea.	1
46	7R07916	ROD, PISTON, LID CHECK	ea.	1
46	7R07918	HOLDER, HINGE PIN, LID CHECK	ea.	1
46	7R07920	NUT, CAP, OIL SEAL, LID CHECK	ea.	1
* 46	7R07922	SEAL, OIL, LID CHECK	ea.	1
46	7R07924	CAP, CYLINDER, LID CHECK	ea.	1
46	7R07926	CYLINDER, LID CHECK	ea.	1
46	7R07928	PISTON, LID CHECK	ea.	1
46	7R07930	PLATE, PISTON, LID CHECK	ea.	1

* Parts keyed with an asterisk are spare parts; those not keyed are available on special purchase only. All requisitions for spare parts should be submitted in accordance with latest revision Army Service Forces Catalog MED–7.

(A) 7R06068 and 7R06072 are also used on Medical Department Item No. 7910107 manufactured by Wilmot Castle Co. 7R06870 is also used on Medical Department Item No. 7910240 manufactured by Wilmot Castle Co. 7R07400 series parts are also used on Medical Department Item No. 7910305 manufactured by Wilmot Castle Co.

(B) These parts on some models only.

SECTION XVI. 7910427 STERILIZER, INSTRUMENT, NONPRESSURE TYPE, 10 BY 12 BY 22-INCH, STEAM, WITH STAND

Hospital Supply Co.

Fig. No.	Medical Dept. No.	Nomenclature	Unit	Quantity
		Common Parts		
* 9	SR00029	VALVE DISK, JENKINS, ⅜ INCH, HARD. For steam supply valve.	ea.	1
* —	SR00034	VALVE DISK, JENKINS, ¾ INCH, SOFT. For waste valve.	ea.	1
* 9	SR00493	HOLDER, DISK, ⅜ INCH JENKINS VALVE	ea.	1
* —	SR00495	HOLDER, DISK, ¾ INCH JENKINS VALVE	ea.	1
12, 38	SR00499	TRAP, STEAM, ⅜ INCH, 60 LBS., WEBSTER NO. 780–2, COMPLETE. Assembly.	ea.	1
* 12	SR00500	SEAT, GASKET, AND ELEMENT, ⅜ INCH, 60 LBS., WEBSTER NO. 780–2.	ea.	1
38	SR00503	STRAINER, STEAM, ⅜ INCH, COMPLETE. Assembly.	ea.	1
* 9, 38	SR00507	VALVE, STEAM, JENKINS NO. ABTJA, ⅜ INCH, COMPLETE. Assembly; for supply.	ea.	1
* 38	SR00520	VALVE, WATER, JENKINS NO. ABTJH, ¾ INCH, COMPLETE. Assembly; for waste.	ea.	1
—	SR00521	VALVE, STEAM, CHECK, ⅜ INCH, JENKINS NO. ABTVO, COMPLETE. Assembly.	ea.	1
* —	SR00522	DISK, STEAM, JENKINS ⅜ INCH CHECK VALVE.	ea.	1
* —	SR00574	PACKING, STRING, VALVE, ⅛ INCH	spool	1

Fig. No.	Medical Dept. No.	Nomenclature	Unit	Quantity
		Uncommon Parts		
*A38	7R06376	VALVE, WATER SUPPLY, WITH BLEEDER, COMPLETE. Assembly.	ea.	1
*A—	7R06386	DISK, WATER SUPPLY VALVE WITH BLEEDER	ea.	1
*A—	7R07104	KNOB	set	1
AB38, 40	7R07108	VALVE, STEAM CONTROL, COMPLETE. Assembly	ea.	1
40	7R07118	NUT, LOCK, STEAM CONTROL VALVE	ea.	1
40	7R07120	TUBE, ADJUSTING, STEAM CONTROL VALVE	ea.	1
* 39	7R07606	CHECK, LID, COMPLETE. Assembly	ea.	1
—	7R07608	FLANGE, LEVELING FLOOR	ea.	4
—	7R07610	STAND	ea.	1
38	7R07612	LID	ea.	1
38	7R07614	BOILER	ea.	1
39	7R07616	SCREW, ADJUSTING, LID CHECK	ea.	1
B 39	7R07618	CYLINDER, LID CHECK	ea.	1
B 39	7R07620	CAP, LID CHECK	ea.	1
39	7R07622	ROD, PISTON, LID CHECK	ea.	1
* 39	7R07624	WASHER, LID CHECK	ea.	1

* Parts keyed with an asterisk are spare parts; those not keyed are available on special purchase only. All requisitions for spare parts should be submitted in accordance with latest revision Army Service Forces Catalog MED–7.

(A) 7R06376 and 7R06386 are also used on Medical Department Item No. 7910240 manufactured by Hospital Supply Co. 7R07104 and 7R07108 are also used on Medical Department Item No. 7910305 manufactured by Hospital Supply Co.

(B) These parts on some models only.

SECTION XVII. 9950000 STERILIZER, DRESSING AND UTENSIL, HORIZONTAL, WITH LEADED GASOLINE BURNER

American Sterilizer Co.

Fig. No.	Medical Dept. No.	Nomenclature	Unit	Quantity
		Common Parts		
* —	SR00029	VALVE DISK, JENKINS, 3/8 INCH, HARD. For right angle valve.	ea.	3
* —	SR00033	VALVE DISC, JENKINS, 1/2 INCH, SOFT. For water fill valve.	ea.	1
—	SR00043	NUT, 6 x 32, HEX, 144 TO PKG. For finishing jacket end plate.	pkg.	
—	SR00105	SCREW, 6–32 x 3/8 INCH, R.H.M., 144 TO PKG. For finishing jacket end plate.	pkg.	
48	SR00156	WASHER, LOCK, SCREW SIZE 5/16, 1000 TO PKG. For socket plate and ball retainer screws.	pkg.	
48	SR00229	WASHER, LOCK, SCREW SIZE 1/4, 1000 TO PKG. For door thrust ring screw.	pkg.	
48	SR00297	WASHER, SCREW SIZE 10, 1 LB. PKG., 1000 WASHERS. For hinge pin.	pkg.	
* —	SR00336	WASHER, SCREW SIZE 3/8, 5 LB., PKG., 340 WASHERS. For stand sections.	pkg.	
48	SR00337	WASHER, SCREW SIZE 1/2, 5 LB. PKG., 130 WASHERS. For hinge screw and hinge pin.	pkg	
4	SR00499	TRAP, STEAM, 3/8 INCH, 60 LBS., WEBSTER NO. 780–2, COMPLETE. Assembly.	ea.	1

Fig. No.	Medical Dept. No.	Nomenclature	Unit	Quantity
		Common Parts—Contd.		
* —	SR00500	SEAT, GASKET, AND ELEMENT, 3/8 INCH, 60 LBS., WEBSTER NO. 780–2.	ea.	1
* —	SR00526	NUT, 3/8 x 16, HEX, 100 TO PKG. For stand sections.	pkg.	
* —	SR00574	PACKING, STRING, VALVE, 1/8 INCH	spool	1
* —	SR00612	BOLT, 3/8–16 x 1 INCH, HEX H.M., 50 TO PKG. For gas tank bracket.	pkg.	
* 5	SR00613	BOLT, 3/8-16 x 1 3/4 INCH, HEX H.M., 50 TO PKG. For overhead section stand.	pkg.	
* 5	SR00614	BOLT, 3/8–16 x 2 INCH, HEX H.M., 50 TO PKG. For horizontal brace section stand.	pkg.	
* —	SR00615	NUT, 7/16 x 14, HEX, 50 TO PKG. For cleanout plate	pkg.	
4	SR00616	PLUG, PIPE, SOLID, SQUARE HEAD, 3/8 INCH. For drain.	ea.	1
48	SR00617	SCREW, 10–32 x 5/16 INCH, R.H.M., BRASS, 144 TO PKG. For door back cover and hinge pin.	pkg.	
—	SR00618	SCREW, 1/4–20 x 1/4 INCH, R.H.M., BRASS, 144 TO PKG. For baffle.	pkg.	
48	SR00619	SCREW, 1/4–28 x 5/8 INCH, R.H.M., BRASS, 144 TO PKG. For door thrust ring.	pkg.	
48	SR00620	SCREW, 5/16–18 x 5/8 INCH, ALLEN HEAD, CAP, 144 TO PKG. For door socket plate.	pkg.	
48	SR00621	SCREW, 5/16–24 x 1/2 INCH, FILL. H., CAP, BRASS, 144 TO PKG. For door ball retainer.	pkg.	
* 5, 48	SR00623	SCREW, 1/2–20 x 1 3/8 INCH, FILL. H., CAP, 144 TO PKG. For door hinge.	pkg.	
—	SR00624	SCREW, 6 x 1/2 INCH, SHEET METAL, R.H., 144 TO PKG. For finishing jacket.	pkg.	
		Uncommon Parts		
* 5	9R00302	VALVE, SAFETY	ea.	1
* 5	9R00304	VALVE, RIGHT ANGLE. For steam waste and exhaust.	ea.	3
* 5	9R00306	THERMOMETER	ea.	1
* 5	9R00308	VALVE, WATER FILL	ea.	1
* 5	9R00310	GAGE, GLASS, WATER LEVEL, COMPLETE. With washers.	ea.	1
* 5	9R00312	GAGE, JACKET	ea.	1
* 5	9R00314	GAGE, CHAMBER	ea.	1
* —	9R00316	COVER, CLEANOUT	ea.	1
* —	9R00318	SCREEN, CHAMBER	ea.	1
* —	9R00320	GASKET, DOOR	ea.	1
* —	9R00324	KNOB, WATER VALVE	ea.	1
* —	9R00326	KNOB, STEAM VALVE	ea.	1
* —	9R00328	KNOB, EXHAUST VALVE	ea.	1
* —	9R00330	KNOB, WASTE VALVE	ea.	1
* —	9R00332	GASKET, CLEANOUT COVER	ea.	1
5, 48	9R00334	ARM, DOOR	ea.	10
48	9R00336	BEARING, BALL THRUST, DOOR	ea.	1
48	9R00338	CASTING, BRASS, HINGE BALL	ea.	1
48	9R00340	CASTING, DOOR	ea.	1
—	9R00342	COVER, DOOR BACK	ea.	1
5, 48	9R00344	HINGE, DOOR	ea.	1
—	9R00346	KEY, CAM, DOOR	ea.	2
5, 48	9R00348	PIN AND KNOB, DOOR HINGE	ea.	1
48	9R00350	PLATE, INNER THRUST RING, DOOR	ea.	1
48	9R00352	PLATE, OUTER THRUST RING, DOOR	ea.	1
48	9R00354	PLATE, BOTTOM SOCKET, DOOR	ea.	1
48	9R00356	PLATE, TOP SOCKET, DOOR	ea.	1
48	9R00358	RETAINER, BALL, DOOR	ea.	1
* 48	9R00360	SCREW, DOOR ADJUSTING	ea.	1
48	9R00362	SPRING, DOOR THRUST RING	ea.	4
48	9R00364	STOP, DOOR	ea.	2

Fig. No.	Medical Dept. No.	Nomenclature	Unit	Quantity
		Uncommon Parts—Contd.		
5, 48	9R00366	WHEEL, HAND, DOOR	ea.	1
—	9R00368	BAFFLE	ea.	1
—	9R00370	BOX, TOOL AND SPARE PARTS	ea.	1
5	9R00372	CLIP, PUMP	ea.	1
—	9R00374	FELT, PUMP CLIP	ea.	1
5	9R00376	FLANGE, LEVELING FLOOR	ea.	4
—	9R00378	FRAME, PRESSURE GAUGE GLASS	ea.	2
—	9R00380	FRAME, THERMOMETER GLASS	ea.	1
5	9R00382	FUNNEL, WATER FILLING	ea.	1
* —	9R00384	GLASS, PRESSURE GAUGE	ea.	2
* —	9R00386	GLASS, THERMOMETER	ea.	1
* —	9R00388	HOLDER, DISK, RIGHT ANGLE VALVE	ea.	3
* —	9R00390	HOLDER, DISK, WATER FILL VALVE	ea.	1
5	9R00392	HOLDER, LOWER, GLASS GAUGE	ea.	1
5	9R00394	HOLDER, UPPER, GLASS GAUGE	ea.	1
5	9R00396	JACKET, FINISHING	ea.	1
—	9R00398	PIPE AND FITTINGS, STANDARD, SET	ea.	1
5	9R00400	PLATE, END	ea.	2
5	9R00402	PLUG, GLASS GAUGE HOLDER	ea.	2
5	9R00404	ROD, GLASS GAUGE	ea.	2
* 4, 5	9R00406	SCRAPER	ea.	1
—	9R00408	SCREW, PRESSURE GAUGE GLASS FRAME	ea.	4
—	9R00410	SCREW, THERMOMETER GLASS FRAME	ea.	2
3, 4, 5	9R00412	STAND, HORIZONTAL BRACE SECTION	ea.	1
4, 5	9R00414	STAND, LOWER LEG SECTION	ea.	4
3, 4, 5	9R00416	STAND, OVERHEAD SECTION	ea.	2
—	9R00418	TRAY, DRESSING	ea.	1
—	9R00420	BODY, ⅜ INCH ANGLE VALVE	ea.	3
—	9R00422	BONNET, ⅜ INCH ANGLE VALVE	ea.	3
—	9R00424	NUT, BONNET, ⅜ INCH ANGLE VALVE	ea.	3
—	9R00426	NUT, UNION, ⅜ INCH. For angle valves and steam trap.	ea.	4
—	9R00428	SPUD, FEMALE, ⅜ INCH. For angle valves and steam trap.	ea.	4
—	9R00430	BODY, ½-INCH GLOBE WATER VALVE	ea.	1
—	9R00432	BONNET, ½-INCH GLOBE WATER VALVE	ea.	1
—	9R00434	NUT, BONNET, ½-INCH GLOBE WATER VALVE	ea.	1
—	9R00436	NUT, UNION, ½ INCH. For globe water valve	ea.	1
—	9R00438	SPUD, MALE, ½ INCH. For globe water valve	ea.	1
—	9R00440	GLAND, PACKING, VALVE	ea.	1
—	9R00442	NUT, KNOB, VALVE	ea.	4
—	9R00444	NUT, PACKING, VALVE	ea.	4
—	9R00446	NUT, VALVE DISK	ea.	4
—	9R00448	STEM, VALVE	ea.	4
* —	9R00500	WASHER, GLASS GAUGE	ea.	2
4, 5	9R10004	BURNER, FOUR 10,000 B.T.U. HEADS, GASOLINE	ea.	1

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